



Environment Testing TestAmerica

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ANALYTICAL REPORT

Eurofins TestAmerica, St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

Laboratory Job ID: 160-36699-1

Client Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL
Revision: 1

For:

Wood E&I Solutions Inc
10940 White Rock Road Suite 190
Rancho Cordova, California 95670

Attn: Kent Parrish

Authorized for release by:
2/26/2020 2:53:29 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPLAMP Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPLAMP. This Laboratory Report is confidential and is intended for the sole use of Eurofins TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The signature on the cover page extends to the case narrative and all the data and forms in the package. The Chain of Custody is included and is an integral part of this report.



Jayna Awalt
Project Manager II
2/26/2020 2:53:29 PM

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Definitions/Glossary

Client: Wood E&I Solutions Inc
Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Qualifiers

Rad Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Wood E&I Solutions Inc
Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Job ID: 160-36699-1

Laboratory: Eurofins TestAmerica, St. Louis

Narrative

CASE NARRATIVE

Client: Wood E&I Solutions Inc

Project: ACMS - Yerington OU-4B_OU-5_SOIL

Report Number: 160-36699-1

Rev. 1 - Revised field chains were sent to change sample time for STSB04_79-84. Revised Chain of Custodies are included.

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, St. Louis attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an ""as received"" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

Manual Integrations and ROIs were performed only when necessary and are in compliance with the laboratory's standard operating procedure. Detailed information can be found in the raw data section of the level IV report.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

Case Narrative

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Job ID: 160-36699-1 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

The samples were received on 12/13/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.4° C, 0.7° C and 0.7° C.

METALS (ICPMS)

Samples STSB04_0-0.5 (160-36699-1), STSB04_0.5-3 (160-36699-2), STSB04_3-6 (160-36699-3), STSB04_6-15 (160-36699-4), STSB04_15-25 (160-36699-5), STSB04_25-35 (160-36699-6), STSB04-FD_15-25 (160-36699-7), STSB04_35-45 (160-36699-8), STSB04_45-55 (160-36699-9), STSB04_55-64 (160-36699-10), STSB04_69-74 (160-36699-11), STSB04_79-84 (160-36699-12), STSB03_0-0.5 (160-36699-13), STSB03_0.5-3 (160-36699-14), STSB03-FD_0-0.5 (160-36699-15), STSB03_3-6 (160-36699-16), STSB03_6-15 (160-36699-17), STSB03_15-25 (160-36699-18), STSB03_25-35 (160-36699-19), STSB03_35-45 (160-36699-20), STSB03_45-55 (160-36699-21), STSB03_55-65 (160-36699-22), STSB03_73.5-78.5 (160-36699-23), STSB03_83.5-88.5 (160-36699-24), STSB21_0-0.5 (160-36699-25), STSB21_0.5-3 (160-36699-26), STSB21_3-6 (160-36699-27), STSB21_6-15 (160-36699-28) and STSB21-FD_6-15 (160-36699-29) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 12/20/2019 and analyzed on 01/06/2020.

For ICPMS Metals, a 2X dilution was performed. This is a standard dilution that is performed by TestAmerica St. Louis on all samples analyzed by method SW-846 6020A. The dilution is performed in order to have the matrix of the samples (i.e. the concentration of acids) match the matrix of the standards used for calibration and instrument quality control purposes. The MDL studies analyzed by this method undergo the same 2X dilution, and all detection limits are based on this. As such, MDL's and RL's are not affected by the dilution.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERCENT SOLIDS

Samples STSB04_0-0.5 (160-36699-1), STSB04_0.5-3 (160-36699-2), STSB04_3-6 (160-36699-3), STSB04_6-15 (160-36699-4), STSB04_15-25 (160-36699-5), STSB04_25-35 (160-36699-6), STSB04-FD_15-25 (160-36699-7), STSB04_35-45 (160-36699-8), STSB04_45-55 (160-36699-9), STSB04_55-64 (160-36699-10), STSB04_69-74 (160-36699-11), STSB04_79-84 (160-36699-12), STSB03_0-0.5 (160-36699-13), STSB03_0.5-3 (160-36699-14), STSB03-FD_0-0.5 (160-36699-15), STSB03_3-6 (160-36699-16), STSB03_6-15 (160-36699-17), STSB03_15-25 (160-36699-18), STSB03_25-35 (160-36699-19), STSB03_35-45 (160-36699-20), STSB03_45-55 (160-36699-21), STSB03_55-65 (160-36699-22), STSB03_73.5-78.5 (160-36699-23), STSB03_83.5-88.5 (160-36699-24), STSB21_0-0.5 (160-36699-25), STSB21_0.5-3 (160-36699-26), STSB21_3-6 (160-36699-27), STSB21_6-15 (160-36699-28) and STSB21-FD_6-15 (160-36699-29) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 12/17/2019.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

RADIUM-226 BY GAMMA SPEC (21 DAY INGROWTH)

Samples STSB04_0-0.5 (160-36699-1), STSB04_0.5-3 (160-36699-2), STSB04_3-6 (160-36699-3), STSB04_6-15 (160-36699-4), STSB04_15-25 (160-36699-5), STSB04_25-35 (160-36699-6), STSB04-FD_15-25 (160-36699-7), STSB04_35-45 (160-36699-8), STSB04_45-55 (160-36699-9), STSB04_55-64 (160-36699-10), STSB04_69-74 (160-36699-11), STSB04_79-84 (160-36699-12), STSB03_0-0.5 (160-36699-13), STSB03_0.5-3 (160-36699-14), STSB03-FD_0-0.5 (160-36699-15), STSB03_3-6 (160-36699-16), STSB03_6-15 (160-36699-17), STSB03_15-25 (160-36699-18), STSB03_25-35 (160-36699-19), STSB03_35-45 (160-36699-20), STSB03_45-55 (160-36699-21), STSB03_55-65 (160-36699-22), STSB03_73.5-78.5 (160-36699-23), STSB03_83.5-88.5 (160-36699-24), STSB21_0-0.5 (160-36699-25), STSB21_0.5-3 (160-36699-26), STSB21_3-6 (160-36699-27), STSB21_6-15 (160-36699-28) and STSB21-FD_6-15 (160-36699-29) were analyzed for Radium-226 by gamma spec (21 day ingrowth) in accordance with EPA 901.1. The samples were dried on 12/17/2019, prepared on 12/19/2019 and 12/20/2019 and analyzed on 01/09/2020, 01/10/2020, 01/11/2020 and 01/20/2020.

Many isotopes requested for analysis do not have any gamma emissions, or the gamma emissions they do have are very poor. Often, such analytes are reported by gamma spectrometry assuming secular equilibrium with a longer-lived parent. The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from Reported to Analyte

Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m

Case Narrative

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Job ID: 160-36699-1 (Continued)

Laboratory: Eurofins TestAmerica, St. Louis (Continued)

Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: STSB04_0-0.5

Date Collected: 12/09/19 15:00

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-1

Matrix: Solid

Percent Solids: 90.8

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.6		0.20	0.090	mg/Kg	⌚	12/20/19 12:36	01/06/20 20:18	2
Uranium	1.8		0.10	0.040	mg/Kg	⌚	12/20/19 12:36	01/06/20 20:18	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	2.15		0.270	0.350	1.00	0.156	pCi/g	12/19/19 19:25	01/09/20 07:20	1
Radium-228	0.865		0.279	0.293	1.00	0.230	pCi/g	12/19/19 19:25	01/09/20 07:20	1

Client Sample ID: STSB04_0.5-3

Date Collected: 12/09/19 15:15

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-2

Matrix: Solid

Percent Solids: 94.8

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.5		0.18	0.080	mg/Kg	⌚	12/20/19 12:36	01/06/20 20:25	2
Uranium	1.3		0.089	0.036	mg/Kg	⌚	12/20/19 12:36	01/06/20 20:25	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.33		0.182	0.229	1.00	0.123	pCi/g	12/19/19 19:25	01/09/20 07:16	1
Radium-228	0.837		0.220	0.236	1.00	0.174	pCi/g	12/19/19 19:25	01/09/20 07:16	1

Client Sample ID: STSB04_3-6

Date Collected: 12/09/19 15:30

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-3

Matrix: Solid

Percent Solids: 96.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	9.2		0.19	0.087	mg/Kg	⌚	12/20/19 12:36	01/06/20 21:19	2
Uranium	2.0		0.097	0.039	mg/Kg	⌚	12/20/19 12:36	01/06/20 21:19	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.15		0.219	0.249	1.00	0.166	pCi/g	12/19/19 19:25	01/09/20 07:17	1
Radium-228	1.21		0.266	0.293	1.00	0.222	pCi/g	12/19/19 19:25	01/09/20 07:17	1

Client Sample ID: STSB04_6-15

Date Collected: 12/09/19 15:39

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-4

Matrix: Solid

Percent Solids: 96.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.7		0.19	0.085	mg/Kg	⌚	12/20/19 12:36	01/06/20 21:26	2
Uranium	2.5		0.094	0.038	mg/Kg	⌚	12/20/19 12:36	01/06/20 21:26	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB04_6-15

Date Collected: 12/09/19 15:39
 Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-4

Matrix: Solid

Percent Solids: 96.5

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.881		0.165	0.189	1.00	0.129	pCi/g	12/19/19 19:25	01/09/20 07:19	1
Radium-228	1.19		0.205	0.239	1.00	0.150	pCi/g	12/19/19 19:25	01/09/20 07:19	1

Client Sample ID: STSB04_15-25

Date Collected: 12/09/19 16:04
 Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-5

Matrix: Solid

Percent Solids: 96.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count (2σ+/-)	Total (2σ+/-)					
Thorium	6.3		0.19	0.085	mg/Kg	☀	12/20/19 12:36	01/06/20 21:32	2
Uranium	2.0		0.094	0.038	mg/Kg	☀	12/20/19 12:36	01/06/20 21:32	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.27		0.224	0.259	1.00	0.167	pCi/g	12/19/19 19:25	01/09/20 07:20	1
Radium-228	1.29		0.261	0.292	1.00	0.101	pCi/g	12/19/19 19:25	01/09/20 07:20	1

Client Sample ID: STSB04_25-35

Date Collected: 12/10/19 07:53
 Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-6

Matrix: Solid

Percent Solids: 91.9

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count (2σ+/-)	Total (2σ+/-)					
Thorium	7.0		0.20	0.091	mg/Kg	☀	12/20/19 12:36	01/06/20 21:39	2
Uranium	2.0		0.10	0.041	mg/Kg	☀	12/20/19 12:36	01/06/20 21:39	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.71		0.279	0.329	1.00	0.187	pCi/g	12/19/19 19:25	01/09/20 07:55	1
Radium-228	1.28		0.255	0.286	1.00	0.347	pCi/g	12/19/19 19:25	01/09/20 07:55	1

Client Sample ID: STSB04-FD_15-25

Date Collected: 12/09/19 16:09
 Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-7

Matrix: Solid

Percent Solids: 96.6

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count (2σ+/-)	Total (2σ+/-)					
Thorium	6.5		0.19	0.087	mg/Kg	☀	12/20/19 12:36	01/06/20 21:46	2
Uranium	1.9		0.096	0.038	mg/Kg	☀	12/20/19 12:36	01/06/20 21:46	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	1.58		0.271	0.315	1.00	0.201	pCi/g	12/19/19 19:25	01/09/20 08:28	1
Radium-228	1.34		0.282	0.313	1.00	0.290	pCi/g	12/19/19 19:25	01/09/20 08:28	1

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: STSB04_35-45

Lab Sample ID: 160-36699-8

Date Collected: 12/10/19 08:00

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 95.1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	5.7		0.20	0.090	mg/Kg	⌚	12/20/19 12:36	01/06/20 21:53	2
Uranium	1.2		0.10	0.040	mg/Kg	⌚	12/20/19 12:36	01/06/20 21:53	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	0.933		0.201	0.223	1.00	0.169	pCi/g	12/19/19 19:25	01/09/20 08:30	1
Radium-228	1.28		0.275	0.304	1.00	0.191	pCi/g	12/19/19 19:25	01/09/20 08:30	1

Client Sample ID: STSB04_45-55

Lab Sample ID: 160-36699-9

Date Collected: 12/10/19 08:22

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 93.7

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.9		0.19	0.086	mg/Kg	⌚	12/20/19 12:36	01/06/20 21:59	2
Uranium	1.5		0.096	0.038	mg/Kg	⌚	12/20/19 12:36	01/06/20 21:59	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.08		0.251	0.274	1.00	0.225	pCi/g	12/19/19 19:25	01/09/20 09:52	1
Radium-228	1.17		0.233	0.262	1.00	0.120	pCi/g	12/19/19 19:25	01/09/20 09:52	1

Client Sample ID: STSB04_55-64

Lab Sample ID: 160-36699-10

Date Collected: 12/10/19 08:34

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 91.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.5		0.20	0.089	mg/Kg	⌚	12/20/19 12:36	01/06/20 22:06	2
Uranium	1.5		0.099	0.040	mg/Kg	⌚	12/20/19 12:36	01/06/20 22:06	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.25		0.262	0.291	1.00	0.195	pCi/g	12/19/19 19:25	01/09/20 09:14	1
Radium-228	1.17		0.326	0.347	1.00	0.210	pCi/g	12/19/19 19:25	01/09/20 09:14	1

Client Sample ID: STSB04_69-74

Lab Sample ID: 160-36699-11

Date Collected: 12/10/19 08:48

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 81.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	11		0.23	0.10	mg/Kg	⌚	12/20/19 12:36	01/06/20 22:33	2
Uranium	1.6		0.11	0.046	mg/Kg	⌚	12/20/19 12:36	01/06/20 22:33	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: STSB04_69-74

Lab Sample ID: 160-36699-11

Date Collected: 12/10/19 08:48

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 81.4

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.85		0.289	0.348	1.00	0.198	pCi/g	12/19/19 19:25	01/09/20 09:07	1
Radium-228	1.86		0.422	0.463	1.00	0.396	pCi/g	12/19/19 19:25	01/09/20 09:07	1

Client Sample ID: STSB04_79-84

Lab Sample ID: 160-36699-12

Date Collected: 12/10/19 09:24

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 87.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	5.4		0.21	0.093	mg/Kg	☀	12/20/19 12:36	01/06/20 22:40	2
Uranium	0.90		0.10	0.041	mg/Kg	☀	12/20/19 12:36	01/06/20 22:40	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.24		0.275	0.303	1.00	0.221	pCi/g	12/19/19 19:25	01/09/20 09:10	1
Radium-228	1.29		0.297	0.325	1.00	0.161	pCi/g	12/19/19 19:25	01/09/20 09:10	1

Client Sample ID: STSB03_0-0.5

Lab Sample ID: 160-36699-13

Date Collected: 12/10/19 10:53

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 93.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	5.4		0.19	0.085	mg/Kg	☀	12/20/19 12:36	01/06/20 22:46	2
Uranium	1.6		0.094	0.038	mg/Kg	☀	12/20/19 12:36	01/06/20 22:46	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.41		0.226	0.270	1.00	0.160	pCi/g	12/19/19 19:25	01/09/20 09:11	1
Radium-228	0.975		0.190	0.215	1.00	0.204	pCi/g	12/19/19 19:25	01/09/20 09:11	1

Client Sample ID: STSB03_0.5-3

Lab Sample ID: 160-36699-14

Date Collected: 12/10/19 11:01

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 82.9

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	9.0		0.23	0.10	mg/Kg	☀	12/20/19 12:36	01/06/20 22:53	2
Uranium	3.6		0.12	0.046	mg/Kg	☀	12/20/19 12:36	01/06/20 22:53	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	3.00		0.351	0.469	1.00	0.196	pCi/g	12/19/19 19:25	01/09/20 09:55	1
Radium-228	1.45		0.333	0.364	1.00	0.292	pCi/g	12/19/19 19:25	01/09/20 09:55	1

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: STSB03-FD_0-0.5

Lab Sample ID: 160-36699-15

Date Collected: 12/10/19 10:55

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 93.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	5.0		0.19	0.087	mg/Kg	⌚	12/20/19 12:36	01/06/20 23:00	2
Uranium	1.7		0.097	0.039	mg/Kg	⌚	12/20/19 12:36	01/06/20 23:00	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Count	Total
Uncert.	Uncert.

Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.47		0.197	0.249	1.00	0.123	pCi/g	12/19/19 19:25	01/09/20 09:53	1
Radium-228	0.593		0.326	0.332	1.00	0.340	pCi/g	12/19/19 19:25	01/09/20 09:53	1

Client Sample ID: STSB03_3-6

Lab Sample ID: 160-36699-16

Date Collected: 12/10/19 11:16

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 75.7

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	12		0.25	0.11	mg/Kg	⌚	12/20/19 12:36	01/06/20 23:07	2
Uranium	6.4		0.13	0.050	mg/Kg	⌚	12/20/19 12:36	01/06/20 23:07	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Count	Total
Uncert.	Uncert.

Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.59		0.331	0.370	1.00	0.238	pCi/g	12/20/19 14:42	01/20/20 11:07	1
Radium-228	1.60		0.434	0.464	1.00	0.213	pCi/g	12/20/19 14:42	01/20/20 11:07	1

Client Sample ID: STSB03_6-15

Lab Sample ID: 160-36699-17

Date Collected: 12/10/19 11:22

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 80.6

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	9.1		0.24	0.11	mg/Kg	⌚	12/20/19 12:36	01/06/20 23:13	2
Uranium	5.5		0.12	0.048	mg/Kg	⌚	12/20/19 12:36	01/06/20 23:13	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Count	Total
Uncert.	Uncert.

Analyte	Result	Qualifier	(2σ+/-)	(2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.63		0.342	0.381	1.00	0.231	pCi/g	12/20/19 14:42	01/10/20 12:19	1
Radium-228	1.56		0.347	0.382	1.00	0.174	pCi/g	12/20/19 14:42	01/10/20 12:19	1

Client Sample ID: STSB03_15-25

Lab Sample ID: 160-36699-18

Date Collected: 12/10/19 11:30

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 93.8

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.9		0.20	0.091	mg/Kg	⌚	12/20/19 12:37	01/06/20 23:20	2
Uranium	1.3		0.10	0.041	mg/Kg	⌚	12/20/19 12:37	01/06/20 23:20	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: STSB03_15-25

Lab Sample ID: 160-36699-18

Date Collected: 12/10/19 11:30

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 93.8

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	0.684		0.195	0.207	1.00	0.201	pCi/g	12/20/19 14:42	01/10/20 12:20	1
Radium-228	1.21		0.293	0.318	1.00	0.161	pCi/g	12/20/19 14:42	01/10/20 12:20	1

Client Sample ID: STSB03_25-35

Lab Sample ID: 160-36699-19

Date Collected: 12/10/19 11:37

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 89.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	6.7		0.20	0.089	mg/Kg	☀	12/20/19 12:38	01/06/20 17:36	2
Uranium	0.96		0.099	0.040	mg/Kg	☀	12/20/19 12:38	01/06/20 17:36	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	0.994		0.261	0.281	1.00	0.230	pCi/g	12/20/19 14:42	01/10/20 12:54	1
Radium-228	0.990		0.492	0.502	1.00	0.491	pCi/g	12/20/19 14:42	01/10/20 12:54	1

Client Sample ID: STSB03_35-45

Lab Sample ID: 160-36699-20

Date Collected: 12/10/19 11:42

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 81.1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	8.1		0.22	0.10	mg/Kg	☀	12/20/19 12:38	01/06/20 17:43	2
Uranium	5.7		0.11	0.045	mg/Kg	☀	12/20/19 12:38	01/06/20 17:43	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	0.928		0.227	0.246	1.00	0.182	pCi/g	12/20/19 14:42	01/10/20 12:55	1
Radium-228	1.26		0.277	0.305	1.00	0.157	pCi/g	12/20/19 14:42	01/10/20 12:55	1

Client Sample ID: STSB03_45-55

Lab Sample ID: 160-36699-21

Date Collected: 12/10/19 11:58

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 94.1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	5.0		0.20	0.091	mg/Kg	☀	12/20/19 12:38	01/06/20 18:10	2
Uranium	1.5		0.10	0.040	mg/Kg	☀	12/20/19 12:38	01/06/20 18:10	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	0.538		0.190	0.198	1.00	0.209	pCi/g	12/20/19 14:42	01/10/20 13:31	1
Radium-228	0.704		0.230	0.241	1.00	0.258	pCi/g	12/20/19 14:42	01/10/20 13:31	1

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: STSB03_55-65

Lab Sample ID: 160-36699-22

Date Collected: 12/10/19 12:14

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 91.7

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	4.3		0.19	0.084	mg/Kg	⌚	12/20/19 12:38	01/06/20 18:17	2
Uranium	1.0		0.094	0.037	mg/Kg	⌚	12/20/19 12:38	01/06/20 18:17	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	0.490		0.136	0.145	1.00	0.107	pCi/g	12/20/19 14:42	01/10/20 13:32	1
Radium-228	0.685		0.262	0.271	1.00	0.203	pCi/g	12/20/19 14:42	01/10/20 13:32	1

Client Sample ID: STSB03_73.5-78.5

Lab Sample ID: 160-36699-23

Date Collected: 12/10/19 12:55

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 86.8

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	11		0.20	0.091	mg/Kg	⌚	12/20/19 12:38	01/06/20 18:24	2
Uranium	1.7		0.10	0.041	mg/Kg	⌚	12/20/19 12:38	01/06/20 18:24	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.78		0.196	0.270	1.00	0.133	pCi/g	12/20/19 14:42	01/11/20 11:36	1
Radium-228	1.58		0.211	0.265	1.00	0.187	pCi/g	12/20/19 14:42	01/11/20 11:36	1

Client Sample ID: STSB03_83.5-88.5

Lab Sample ID: 160-36699-24

Date Collected: 12/10/19 13:20

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 82.3

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	7.2		0.22	0.10	mg/Kg	⌚	12/20/19 12:38	01/06/20 18:30	2
Uranium	1.2		0.11	0.044	mg/Kg	⌚	12/20/19 12:38	01/06/20 18:30	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.88		0.305	0.360	1.00	0.208	pCi/g	12/20/19 14:42	01/11/20 11:37	1
Radium-228	1.47		0.527	0.548	1.00	0.485	pCi/g	12/20/19 14:42	01/11/20 11:37	1

Client Sample ID: STSB21_0-0.5

Lab Sample ID: 160-36699-25

Date Collected: 12/11/19 11:06

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 92.6

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	5.6		0.18	0.082	mg/Kg	⌚	12/20/19 12:38	01/06/20 18:37	2
Uranium	2.2		0.091	0.036	mg/Kg	⌚	12/20/19 12:38	01/06/20 18:37	2

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Client Sample ID: STSB21_0-0.5

Lab Sample ID: 160-36699-25

Date Collected: 12/11/19 11:06

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 92.6

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	2.01		0.213	0.298	1.00	0.133	pCi/g	12/20/19 14:42	01/11/20 12:24	1
Radium-228	1.08		0.196	0.224	1.00	0.198	pCi/g	12/20/19 14:42	01/11/20 12:24	1

Client Sample ID: STSB21_0.5-3

Lab Sample ID: 160-36699-26

Date Collected: 12/11/19 11:09

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 93.2

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	5.6		0.18	0.082	mg/Kg	☀	12/20/19 12:38	01/06/20 18:44	2
Uranium	1.3		0.091	0.036	mg/Kg	☀	12/20/19 12:38	01/06/20 18:44	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	2.43		0.269	0.365	1.00	0.166	pCi/g	12/20/19 14:42	01/11/20 12:25	1
Radium-228	0.968		0.206	0.228	1.00	0.188	pCi/g	12/20/19 14:42	01/11/20 12:25	1

Client Sample ID: STSB21_3-6

Lab Sample ID: 160-36699-27

Date Collected: 12/11/19 11:20

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 75.8

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	7.2		0.25	0.11	mg/Kg	☀	12/20/19 12:38	01/06/20 19:38	2
Uranium	2.6		0.12	0.050	mg/Kg	☀	12/20/19 12:38	01/06/20 19:38	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	2.05		0.347	0.407	1.00	0.259	pCi/g	12/20/19 14:42	01/11/20 12:26	1
Radium-228	1.33		0.368	0.392	1.00	0.521	pCi/g	12/20/19 14:42	01/11/20 12:26	1

Client Sample ID: STSB21_6-15

Lab Sample ID: 160-36699-28

Date Collected: 12/11/19 11:24

Matrix: Solid

Date Received: 12/13/19 09:10

Percent Solids: 78.7

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			Count	Total					
Thorium	9.6		0.24	0.11	mg/Kg	☀	12/20/19 12:38	01/06/20 19:44	2
Uranium	4.2		0.12	0.048	mg/Kg	☀	12/20/19 12:38	01/06/20 19:44	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			(2σ+/-)	(2σ+/-)						
Radium-226	1.31		0.242	0.276	1.00	0.163	pCi/g	12/20/19 14:42	01/11/20 13:04	1
Radium-228	1.32		0.354	0.378	1.00	0.240	pCi/g	12/20/19 14:42	01/11/20 13:04	1

Eurofins TestAmerica, St. Louis

Client Sample Results

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB21-FD_6-15

Lab Sample ID: 160-36699-29

Date Collected: 12/11/19 11:26
 Date Received: 12/13/19 09:10

Matrix: Solid

Percent Solids: 89.6

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	6.9		0.21	0.097	mg/Kg	⌚	12/20/19 12:38	01/06/20 19:51	2
Uranium	2.0		0.11	0.043	mg/Kg	⌚	12/20/19 12:38	01/06/20 19:51	2

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-226	1.49		0.331	0.366	1.00	0.284	pCi/g	12/20/19 14:42	01/11/20 13:08	1
Radium-228	1.17		0.432	0.448	1.00	0.699	pCi/g	12/20/19 14:42	01/11/20 13:08	1

QC Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 160-454839/1-A

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	ND		0.19	0.087	mg/Kg		12/20/19 12:36	01/06/20 19:58	2
Uranium	ND		0.097	0.039	mg/Kg		12/20/19 12:36	01/06/20 19:58	2

Lab Sample ID: LCS 160-454839/2-A

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Thorium	87.8	86.3		mg/Kg		98	80 - 120

Lab Sample ID: LCSSRM 160-454839/3-A

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454839

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec.	Limits
Uranium	70.9	60.0		mg/Kg		84.7	62.6 - 110.

0

Lab Sample ID: 160-36699-2 MS

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: STSB04_0.5-3

Prep Type: Total/NA

Prep Batch: 454839

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Thorium	4.5		100	104		mg/Kg	⊗	99	75 - 125
Uranium	1.3		100	99.4		mg/Kg	⊗	98	75 - 125

Lab Sample ID: 160-36699-2 MSD

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: STSB04_0.5-3

Prep Type: Total/NA

Prep Batch: 454839

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	RPD	Limit
Thorium	4.5		101	104		mg/Kg	⊗	99	75 - 125	0	30
Uranium	1.3		101	99.9		mg/Kg	⊗	98	75 - 125	1	30

Lab Sample ID: 160-36699-2 DU

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: STSB04_0.5-3

Prep Type: Total/NA

Prep Batch: 454839

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD	Limit
Thorium	4.5		101	4.50		mg/Kg	⊗		0.3	30
Uranium	1.3		101	1.11		mg/Kg	⊗		13	30

Lab Sample ID: MB 160-454840/1-A

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thorium	ND		0.17	0.078	mg/Kg		12/20/19 12:38	01/06/20 17:16	2
Uranium	ND		0.086	0.035	mg/Kg		12/20/19 12:38	01/06/20 17:16	2

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QC Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 160-454840/2-A

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454840

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thorium	88.0	90.3		mg/Kg	103	80 - 120	

Lab Sample ID: LCSSRM 160-454840/3-A

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454840

%Rec.

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Uranium	70.9	62.3		mg/Kg	87.8	62.6 - 110.0	

Lab Sample ID: 160-36699-26 MS

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: STSB21_0.5-3

Prep Type: Total/NA

Prep Batch: 454840

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Thorium	5.6		91.2	95.9		mg/Kg	⊗	99	75 - 125
Uranium	1.3		91.2	90.4		mg/Kg	⊗	98	75 - 125

Lab Sample ID: 160-36699-26 MSD

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: STSB21_0.5-3

Prep Type: Total/NA

Prep Batch: 454840

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Thorium	5.6		95.6	101		mg/Kg	⊗	100	75 - 125	6	30
Uranium	1.3		95.6	96.1		mg/Kg	⊗	99	75 - 125	6	30

Lab Sample ID: 160-36699-26 DU

Matrix: Solid

Analysis Batch: 455928

Client Sample ID: STSB21_0.5-3

Prep Type: Total/NA

Prep Batch: 454840

RPD

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D		RPD	Limit
Thorium	5.6			5.64		mg/Kg	⊗		0.6	30
Uranium	1.3			1.11		mg/Kg	⊗		15	30

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-454803/1-A

Matrix: Solid

Analysis Batch: 456216

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454803

Analyte	MB Result	MB Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1872		0.103	0.105	1.00	0.127	pCi/g	12/19/19 19:25	01/09/20 06:35	1
Radium-228	-0.1959	U	0.134	0.136	1.00	0.469	pCi/g	12/19/19 19:25	01/09/20 06:35	1

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QC Sample Results

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS) (Continued)

Lab Sample ID: LCS 160-454803/2-A

Matrix: Solid

Analysis Batch: 456217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454803

Analyte	Spike	LCS		Total		RL	MDC	Unit	%Rec	%Rec.	Limits
	Added	Result	Qual	Uncert. (2σ+/-)							
Americium-241	96.6	92.40		9.74			1.30	pCi/g	96	75 - 125	
Cesium-137	27.3	27.19		2.91			0.273	pCi/g	100	75 - 125	
Cobalt-60	10.7	10.65		1.12			0.122	pCi/g	100	75 - 125	

Lab Sample ID: 160-36699-2 DU

Matrix: Solid

Analysis Batch: 456217

Client Sample ID: STSB04_0.5-3

Prep Type: Total/NA

Prep Batch: 454803

Analyte	Sample	Sample	DU		Total		RL	MDC	Unit	DER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Radium-226	1.33		1.397		0.253	1.00		0.147	pCi/g	0.37	2
Radium-228	0.837		0.8707		0.197	1.00		0.191	pCi/g	0.22	2

Lab Sample ID: MB 160-454856/1-A

Matrix: Solid

Analysis Batch: 456437

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454856

Analyte	MB	MB	Count		Total		RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)	RL	MDC						
Radium-226	-0.04538	U	0.0751	0.0752	1.00	0.218	pCi/g	12/20/19 14:42	01/10/20 11:10			1
Radium-228	0.007709	U	0.0221	0.0221	1.00	0.326	pCi/g	12/20/19 14:42	01/10/20 11:10			1

Lab Sample ID: LCS 160-454856/2-A

Matrix: Solid

Analysis Batch: 457090

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454856

Analyte	Spike	LCS		Total		RL	MDC	Unit	%Rec	%Rec.	Limits
	Added	Result	Qual	Uncert. (2σ+/-)							
Americium-241	96.6	99.72		10.5			1.17	pCi/g	103	75 - 125	
Cesium-137	27.3	27.73		2.99			0.204	pCi/g	102	75 - 125	
Cobalt-60	10.7	10.85		1.17			0.0587	pCi/g	102	75 - 125	

Lab Sample ID: 160-36699-26 DU

Matrix: Solid

Analysis Batch: 456625

Client Sample ID: STSB21_0.5-3

Prep Type: Total/NA

Prep Batch: 454856

Analyte	Sample	Sample	DU		Total		RL	MDC	Unit	DER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)						
Radium-226	2.43		2.077		0.298	1.00		0.115	pCi/g	1.49	2
Radium-228	0.968		0.8013		0.193	1.00		0.158	pCi/g	1.11	2

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QC Association Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Metals

Prep Batch: 454839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-1	STSB04_0-0.5	Total/NA	Solid	3050B	1
160-36699-2	STSB04_0.5-3	Total/NA	Solid	3050B	2
160-36699-3	STSB04_3-6	Total/NA	Solid	3050B	3
160-36699-4	STSB04_6-15	Total/NA	Solid	3050B	4
160-36699-5	STSB04_15-25	Total/NA	Solid	3050B	5
160-36699-6	STSB04_25-35	Total/NA	Solid	3050B	6
160-36699-7	STSB04-FD_15-25	Total/NA	Solid	3050B	7
160-36699-8	STSB04_35-45	Total/NA	Solid	3050B	8
160-36699-9	STSB04_45-55	Total/NA	Solid	3050B	9
160-36699-10	STSB04_55-64	Total/NA	Solid	3050B	10
160-36699-11	STSB04_69-74	Total/NA	Solid	3050B	11
160-36699-12	STSB04_79-84	Total/NA	Solid	3050B	12
160-36699-13	STSB03_0-0.5	Total/NA	Solid	3050B	13
160-36699-14	STSB03_0.5-3	Total/NA	Solid	3050B	14
160-36699-15	STSB03-FD_0-0.5	Total/NA	Solid	3050B	15
160-36699-16	STSB03_3-6	Total/NA	Solid	3050B	16
160-36699-17	STSB03_6-15	Total/NA	Solid	3050B	17
160-36699-18	STSB03_15-25	Total/NA	Solid	3050B	18
MB 160-454839/1-A	Method Blank	Total/NA	Solid	3050B	19
LCS 160-454839/2-A	Lab Control Sample	Total/NA	Solid	3050B	20
LCSSRM 160-454839/3-A	Lab Control Sample	Total/NA	Solid	3050B	21
160-36699-2 MS	STSB04_0.5-3	Total/NA	Solid	3050B	22
160-36699-2 MSD	STSB04_0.5-3	Total/NA	Solid	3050B	23
160-36699-2 DU	STSB04_0.5-3	Total/NA	Solid	3050B	24

Prep Batch: 454840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-19	STSB03_25-35	Total/NA	Solid	3050B	1
160-36699-20	STSB03_35-45	Total/NA	Solid	3050B	2
160-36699-21	STSB03_45-55	Total/NA	Solid	3050B	3
160-36699-22	STSB03_55-65	Total/NA	Solid	3050B	4
160-36699-23	STSB03_73.5-78.5	Total/NA	Solid	3050B	5
160-36699-24	STSB03_83.5-88.5	Total/NA	Solid	3050B	6
160-36699-25	STSB21_0-0.5	Total/NA	Solid	3050B	7
160-36699-26	STSB21_0.5-3	Total/NA	Solid	3050B	8
160-36699-27	STSB21_3-6	Total/NA	Solid	3050B	9
160-36699-28	STSB21_6-15	Total/NA	Solid	3050B	10
160-36699-29	STSB21-FD_6-15	Total/NA	Solid	3050B	11
MB 160-454840/1-A	Method Blank	Total/NA	Solid	3050B	12
LCS 160-454840/2-A	Lab Control Sample	Total/NA	Solid	3050B	13
LCSSRM 160-454840/3-A	Lab Control Sample	Total/NA	Solid	3050B	14
160-36699-26 MS	STSB21_0.5-3	Total/NA	Solid	3050B	15
160-36699-26 MSD	STSB21_0.5-3	Total/NA	Solid	3050B	16
160-36699-26 DU	STSB21_0.5-3	Total/NA	Solid	3050B	17

Analysis Batch: 455928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-1	STSB04_0-0.5	Total/NA	Solid	6020A	454839
160-36699-2	STSB04_0.5-3	Total/NA	Solid	6020A	454839
160-36699-3	STSB04_3-6	Total/NA	Solid	6020A	454839
160-36699-4	STSB04_6-15	Total/NA	Solid	6020A	454839

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QC Association Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Metals (Continued)

Analysis Batch: 455928 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-5	STSB04_15-25	Total/NA	Solid	6020A	454839
160-36699-6	STSB04_25-35	Total/NA	Solid	6020A	454839
160-36699-7	STSB04-FD_15-25	Total/NA	Solid	6020A	454839
160-36699-8	STSB04_35-45	Total/NA	Solid	6020A	454839
160-36699-9	STSB04_45-55	Total/NA	Solid	6020A	454839
160-36699-10	STSB04_55-64	Total/NA	Solid	6020A	454839
160-36699-11	STSB04_69-74	Total/NA	Solid	6020A	454839
160-36699-12	STSB04_79-84	Total/NA	Solid	6020A	454839
160-36699-13	STSB03_0-0.5	Total/NA	Solid	6020A	454839
160-36699-14	STSB03_0.5-3	Total/NA	Solid	6020A	454839
160-36699-15	STSB03-FD_0-0.5	Total/NA	Solid	6020A	454839
160-36699-16	STSB03_3-6	Total/NA	Solid	6020A	454839
160-36699-17	STSB03_6-15	Total/NA	Solid	6020A	454839
160-36699-18	STSB03_15-25	Total/NA	Solid	6020A	454839
160-36699-19	STSB03_25-35	Total/NA	Solid	6020A	454840
160-36699-20	STSB03_35-45	Total/NA	Solid	6020A	454840
160-36699-21	STSB03_45-55	Total/NA	Solid	6020A	454840
160-36699-22	STSB03_55-65	Total/NA	Solid	6020A	454840
160-36699-23	STSB03_73.5-78.5	Total/NA	Solid	6020A	454840
160-36699-24	STSB03_83.5-88.5	Total/NA	Solid	6020A	454840
160-36699-25	STSB21_0-0.5	Total/NA	Solid	6020A	454840
160-36699-26	STSB21_0.5-3	Total/NA	Solid	6020A	454840
160-36699-27	STSB21_3-6	Total/NA	Solid	6020A	454840
160-36699-28	STSB21_6-15	Total/NA	Solid	6020A	454840
160-36699-29	STSB21-FD_6-15	Total/NA	Solid	6020A	454840
MB 160-454839/1-A	Method Blank	Total/NA	Solid	6020A	454839
MB 160-454840/1-A	Method Blank	Total/NA	Solid	6020A	454840
LCS 160-454839/2-A	Lab Control Sample	Total/NA	Solid	6020A	454839
LCS 160-454840/2-A	Lab Control Sample	Total/NA	Solid	6020A	454840
LCSSRM 160-454839/3-A	Lab Control Sample	Total/NA	Solid	6020A	454839
LCSSRM 160-454840/3-A	Lab Control Sample	Total/NA	Solid	6020A	454840
160-36699-2 MS	STSB04_0.5-3	Total/NA	Solid	6020A	454839
160-36699-2 MSD	STSB04_0.5-3	Total/NA	Solid	6020A	454839
160-36699-26 MS	STSB21_0.5-3	Total/NA	Solid	6020A	454840
160-36699-26 MSD	STSB21_0.5-3	Total/NA	Solid	6020A	454840
160-36699-2 DU	STSB04_0.5-3	Total/NA	Solid	6020A	454839
160-36699-26 DU	STSB21_0.5-3	Total/NA	Solid	6020A	454840

General Chemistry

Analysis Batch: 454407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-1	STSB04_0-0.5	Total/NA	Solid	Moisture	
160-36699-2	STSB04_0.5-3	Total/NA	Solid	Moisture	
160-36699-3	STSB04_3-6	Total/NA	Solid	Moisture	
160-36699-4	STSB04_6-15	Total/NA	Solid	Moisture	
160-36699-5	STSB04_15-25	Total/NA	Solid	Moisture	
160-36699-6	STSB04_25-35	Total/NA	Solid	Moisture	
160-36699-7	STSB04-FD_15-25	Total/NA	Solid	Moisture	
160-36699-8	STSB04_35-45	Total/NA	Solid	Moisture	
160-36699-9	STSB04_45-55	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

General Chemistry (Continued)

Analysis Batch: 454407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-10	STSB04_55-64	Total/NA	Solid	Moisture	
160-36699-11	STSB04_69-74	Total/NA	Solid	Moisture	
160-36699-12	STSB04_79-84	Total/NA	Solid	Moisture	
160-36699-13	STSB03_0-0.5	Total/NA	Solid	Moisture	
160-36699-14	STSB03_0.5-3	Total/NA	Solid	Moisture	
160-36699-15	STSB03-FD_0-0.5	Total/NA	Solid	Moisture	
160-36699-1 DU	STSB04_0-0.5	Total/NA	Solid	Moisture	

Analysis Batch: 454422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-16	STSB03_3-6	Total/NA	Solid	Moisture	
160-36699-17	STSB03_6-15	Total/NA	Solid	Moisture	
160-36699-18	STSB03_15-25	Total/NA	Solid	Moisture	
160-36699-19	STSB03_25-35	Total/NA	Solid	Moisture	
160-36699-20	STSB03_35-45	Total/NA	Solid	Moisture	
160-36699-21	STSB03_45-55	Total/NA	Solid	Moisture	
160-36699-22	STSB03_55-65	Total/NA	Solid	Moisture	
160-36699-23	STSB03_73.5-78.5	Total/NA	Solid	Moisture	
160-36699-24	STSB03_83.5-88.5	Total/NA	Solid	Moisture	
160-36699-25	STSB21_0-0.5	Total/NA	Solid	Moisture	
160-36699-26	STSB21_0.5-3	Total/NA	Solid	Moisture	
160-36699-27	STSB21_3-6	Total/NA	Solid	Moisture	
160-36699-28	STSB21_6-15	Total/NA	Solid	Moisture	
160-36699-29	STSB21-FD_6-15	Total/NA	Solid	Moisture	
160-36699-16 DU	STSB03_3-6	Total/NA	Solid	Moisture	

Rad

Leach Batch: 454434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-1	STSB04_0-0.5	Total/NA	Solid	Dry and Grind	
160-36699-2	STSB04_0.5-3	Total/NA	Solid	Dry and Grind	
160-36699-3	STSB04_3-6	Total/NA	Solid	Dry and Grind	
160-36699-4	STSB04_6-15	Total/NA	Solid	Dry and Grind	
160-36699-5	STSB04_15-25	Total/NA	Solid	Dry and Grind	
160-36699-6	STSB04_25-35	Total/NA	Solid	Dry and Grind	
160-36699-7	STSB04-FD_15-25	Total/NA	Solid	Dry and Grind	
160-36699-8	STSB04_35-45	Total/NA	Solid	Dry and Grind	
160-36699-9	STSB04_45-55	Total/NA	Solid	Dry and Grind	
160-36699-10	STSB04_55-64	Total/NA	Solid	Dry and Grind	
160-36699-11	STSB04_69-74	Total/NA	Solid	Dry and Grind	
160-36699-12	STSB04_79-84	Total/NA	Solid	Dry and Grind	
160-36699-13	STSB03_0-0.5	Total/NA	Solid	Dry and Grind	
160-36699-14	STSB03_0.5-3	Total/NA	Solid	Dry and Grind	
160-36699-15	STSB03-FD_0-0.5	Total/NA	Solid	Dry and Grind	
160-36699-16	STSB03_3-6	Total/NA	Solid	Dry and Grind	
160-36699-17	STSB03_6-15	Total/NA	Solid	Dry and Grind	
160-36699-18	STSB03_15-25	Total/NA	Solid	Dry and Grind	
160-36699-19	STSB03_25-35	Total/NA	Solid	Dry and Grind	
160-36699-20	STSB03_35-45	Total/NA	Solid	Dry and Grind	
160-36699-21	STSB03_45-55	Total/NA	Solid	Dry and Grind	

Eurofins TestAmerica, St. Louis

QC Association Summary

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Rad (Continued)

Leach Batch: 454434 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-22	STSB03_55-65	Total/NA	Solid	Dry and Grind	
160-36699-23	STSB03_73.5-78.5	Total/NA	Solid	Dry and Grind	
160-36699-24	STSB03_83.5-88.5	Total/NA	Solid	Dry and Grind	
160-36699-25	STSB21_0-0.5	Total/NA	Solid	Dry and Grind	
160-36699-26	STSB21_0.5-3	Total/NA	Solid	Dry and Grind	
160-36699-27	STSB21_3-6	Total/NA	Solid	Dry and Grind	
160-36699-28	STSB21_6-15	Total/NA	Solid	Dry and Grind	
160-36699-29	STSB21-FD_6-15	Total/NA	Solid	Dry and Grind	
160-36699-2 DU	STSB04_0.5-3	Total/NA	Solid	Dry and Grind	
160-36699-26 DU	STSB21_0.5-3	Total/NA	Solid	Dry and Grind	

Prep Batch: 454803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-1	STSB04_0-0.5	Total/NA	Solid	Fill_Geo-21	454434
160-36699-2	STSB04_0.5-3	Total/NA	Solid	Fill_Geo-21	454434
160-36699-3	STSB04_3-6	Total/NA	Solid	Fill_Geo-21	454434
160-36699-4	STSB04_6-15	Total/NA	Solid	Fill_Geo-21	454434
160-36699-5	STSB04_15-25	Total/NA	Solid	Fill_Geo-21	454434
160-36699-6	STSB04_25-35	Total/NA	Solid	Fill_Geo-21	454434
160-36699-7	STSB04-FD_15-25	Total/NA	Solid	Fill_Geo-21	454434
160-36699-8	STSB04_35-45	Total/NA	Solid	Fill_Geo-21	454434
160-36699-9	STSB04_45-55	Total/NA	Solid	Fill_Geo-21	454434
160-36699-10	STSB04_55-64	Total/NA	Solid	Fill_Geo-21	454434
160-36699-11	STSB04_69-74	Total/NA	Solid	Fill_Geo-21	454434
160-36699-12	STSB04_79-84	Total/NA	Solid	Fill_Geo-21	454434
160-36699-13	STSB03_0-0.5	Total/NA	Solid	Fill_Geo-21	454434
160-36699-14	STSB03_0.5-3	Total/NA	Solid	Fill_Geo-21	454434
160-36699-15	STSB03-FD_0-0.5	Total/NA	Solid	Fill_Geo-21	454434
MB 160-454803/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-454803/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
160-36699-2 DU	STSB04_0.5-3	Total/NA	Solid	Fill_Geo-21	454434

Prep Batch: 454856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-36699-16	STSB03_3-6	Total/NA	Solid	Fill_Geo-21	454434
160-36699-17	STSB03_6-15	Total/NA	Solid	Fill_Geo-21	454434
160-36699-18	STSB03_15-25	Total/NA	Solid	Fill_Geo-21	454434
160-36699-19	STSB03_25-35	Total/NA	Solid	Fill_Geo-21	454434
160-36699-20	STSB03_35-45	Total/NA	Solid	Fill_Geo-21	454434
160-36699-21	STSB03_45-55	Total/NA	Solid	Fill_Geo-21	454434
160-36699-22	STSB03_55-65	Total/NA	Solid	Fill_Geo-21	454434
160-36699-23	STSB03_73.5-78.5	Total/NA	Solid	Fill_Geo-21	454434
160-36699-24	STSB03_83.5-88.5	Total/NA	Solid	Fill_Geo-21	454434
160-36699-25	STSB21_0-0.5	Total/NA	Solid	Fill_Geo-21	454434
160-36699-26	STSB21_0.5-3	Total/NA	Solid	Fill_Geo-21	454434
160-36699-27	STSB21_3-6	Total/NA	Solid	Fill_Geo-21	454434
160-36699-28	STSB21_6-15	Total/NA	Solid	Fill_Geo-21	454434
160-36699-29	STSB21-FD_6-15	Total/NA	Solid	Fill_Geo-21	454434
MB 160-454856/1-A	Method Blank	Total/NA	Solid	Fill_Geo-21	
LCS 160-454856/2-A	Lab Control Sample	Total/NA	Solid	Fill_Geo-21	
160-36699-26 DU	STSB21_0.5-3	Total/NA	Solid	Fill_Geo-21	454434

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB04_0-0.5

Date Collected: 12/09/19 15:00

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456219	01/09/20 07:20	KLS	TAL SL

Client Sample ID: STSB04_0-0.5

Date Collected: 12/09/19 15:00

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-1

Matrix: Solid

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 20:18	FLC	TAL SL

Client Sample ID: STSB04_0.5-3

Date Collected: 12/09/19 15:15

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456216	01/09/20 07:16	KLS	TAL SL

Client Sample ID: STSB04_0.5-3

Date Collected: 12/09/19 15:15

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-2

Matrix: Solid

Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 20:25	FLC	TAL SL

Client Sample ID: STSB04_3-6

Date Collected: 12/09/19 15:30

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456217	01/09/20 07:17	KLS	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB04_3-6

Date Collected: 12/09/19 15:30

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-3

Matrix: Solid

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 21:19	FLC	TAL SL

Client Sample ID: STSB04_6-15

Date Collected: 12/09/19 15:39

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456214	01/09/20 07:19	KLS	TAL SL

Client Sample ID: STSB04_6-15

Date Collected: 12/09/19 15:39

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-4

Matrix: Solid

Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 21:26	FLC	TAL SL

Client Sample ID: STSB04_15-25

Lab Sample ID: 160-36699-5

Matrix: Solid

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456213	01/09/20 07:20	KLS	TAL SL

Client Sample ID: STSB04_15-25

Lab Sample ID: 160-36699-5

Matrix: Solid

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 21:32	FLC	TAL SL

Client Sample ID: STSB04_25-35

Lab Sample ID: 160-36699-6

Matrix: Solid

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB04_25-35

Lab Sample ID: 160-36699-6

Matrix: Solid

Date Collected: 12/10/19 07:53

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456213	01/09/20 07:55	KLS	TAL SL

Client Sample ID: STSB04_25-35

Lab Sample ID: 160-36699-6

Matrix: Solid

Date Collected: 12/10/19 07:53

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 21:39	FLC	TAL SL

Client Sample ID: STSB04-FD_15-25

Lab Sample ID: 160-36699-7

Matrix: Solid

Date Collected: 12/09/19 16:09

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456213	01/09/20 08:28	KLS	TAL SL

Client Sample ID: STSB04-FD_15-25

Lab Sample ID: 160-36699-7

Matrix: Solid

Date Collected: 12/09/19 16:09

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 21:46	FLC	TAL SL

Client Sample ID: STSB04_35-45

Lab Sample ID: 160-36699-8

Matrix: Solid

Date Collected: 12/10/19 08:00

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456217	01/09/20 08:30	KLS	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB04_35-45

Date Collected: 12/10/19 08:00

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-8

Matrix: Solid

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 21:53	FLC	TAL SL

Client Sample ID: STSB04_45-55

Date Collected: 12/10/19 08:22

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456213	01/09/20 09:52	KLS	TAL SL

Client Sample ID: STSB04_45-55

Date Collected: 12/10/19 08:22

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-9

Matrix: Solid

Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 21:59	FLC	TAL SL

Client Sample ID: STSB04_55-64

Date Collected: 12/10/19 08:34

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456213	01/09/20 09:14	KLS	TAL SL

Client Sample ID: STSB04_55-64

Date Collected: 12/10/19 08:34

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-10

Matrix: Solid

Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 22:06	FLC	TAL SL

Client Sample ID: STSB04_69-74

Date Collected: 12/10/19 08:48

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL

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Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB04_69-74

Lab Sample ID: 160-36699-11

Matrix: Solid

Date Collected: 12/10/19 08:48

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456216	01/09/20 09:07	KLS	TAL SL

Client Sample ID: STSB04_69-74

Lab Sample ID: 160-36699-11

Matrix: Solid

Date Collected: 12/10/19 08:48

Date Received: 12/13/19 09:10

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 22:33	FLC	TAL SL

Client Sample ID: STSB04_79-84

Lab Sample ID: 160-36699-12

Matrix: Solid

Date Collected: 12/10/19 09:24

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456218	01/09/20 09:10	KLS	TAL SL

Client Sample ID: STSB04_79-84

Lab Sample ID: 160-36699-12

Matrix: Solid

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 22:40	FLC	TAL SL

Client Sample ID: STSB03_0-0.5

Lab Sample ID: 160-36699-13

Matrix: Solid

Date Collected: 12/10/19 10:53

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456219	01/09/20 09:11	KLS	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB03_0-0.5

Date Collected: 12/10/19 10:53

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-13

Matrix: Solid

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 22:46	FLC	TAL SL

Client Sample ID: STSB03_0.5-3

Date Collected: 12/10/19 11:01

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:40	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456215	01/09/20 09:55	KLS	TAL SL

Client Sample ID: STSB03_0.5-3

Date Collected: 12/10/19 11:01

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-14

Matrix: Solid

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 22:53	FLC	TAL SL

Client Sample ID: STSB03-FD_0-0.5

Lab Sample ID: 160-36699-15

Matrix: Solid

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454407	12/17/19 10:44	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454803	12/19/19 19:25	KLH	TAL SL
Total/NA	Analysis	901.1		1	456216	01/09/20 09:53	KLS	TAL SL

Client Sample ID: STSB03-FD_0-0.5

Lab Sample ID: 160-36699-15

Matrix: Solid

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 23:00	FLC	TAL SL

Client Sample ID: STSB03_3-6

Lab Sample ID: 160-36699-16

Matrix: Solid

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB03_3-6

Date Collected: 12/10/19 11:16

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	457267	01/20/20 11:07	AJD	TAL SL

Client Sample ID: STSB03_3-6

Date Collected: 12/10/19 11:16

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-16

Matrix: Solid

Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 23:07	FLC	TAL SL

Client Sample ID: STSB03_6-15

Date Collected: 12/10/19 11:22

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456437	01/10/20 12:19	KLS	TAL SL

Client Sample ID: STSB03_6-15

Date Collected: 12/10/19 11:22

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-17

Matrix: Solid

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:36	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 23:13	FLC	TAL SL

Client Sample ID: STSB03_15-25

Date Collected: 12/10/19 11:30

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456436	01/10/20 12:20	KLS	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB03_15-25

Date Collected: 12/10/19 11:30

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-18

Matrix: Solid

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454839	12/20/19 12:37	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 23:20	FLC	TAL SL

Client Sample ID: STSB03_25-35

Date Collected: 12/10/19 11:37

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456436	01/10/20 12:54	KLS	TAL SL

Client Sample ID: STSB03_25-35

Date Collected: 12/10/19 11:37

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-19

Matrix: Solid

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 17:36	FLC	TAL SL

Client Sample ID: STSB03_35-45

Date Collected: 12/10/19 11:42

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456437	01/10/20 12:55	KLS	TAL SL

Client Sample ID: STSB03_35-45

Date Collected: 12/10/19 11:42

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-20

Matrix: Solid

Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 17:43	FLC	TAL SL

Client Sample ID: STSB03_45-55

Date Collected: 12/10/19 11:58

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB03_45-55

Date Collected: 12/10/19 11:58

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456436	01/10/20 13:31	KLS	TAL SL

Client Sample ID: STSB03_45-55

Date Collected: 12/10/19 11:58

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-21

Matrix: Solid

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 18:10	FLC	TAL SL

Client Sample ID: STSB03_55-65

Date Collected: 12/10/19 12:14

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456437	01/10/20 13:32	KLS	TAL SL

Client Sample ID: STSB03_55-65

Date Collected: 12/10/19 12:14

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-22

Matrix: Solid

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 18:17	FLC	TAL SL

Client Sample ID: STSB03_73.5-78.5

Date Collected: 12/10/19 12:55

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456625	01/11/20 11:36	KLS	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB03_73.5-78.5

Lab Sample ID: 160-36699-23

Date Collected: 12/10/19 12:55
 Date Received: 12/13/19 09:10

Matrix: Solid

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 18:24	FLC	TAL SL

Client Sample ID: STSB03_83.5-88.5

Lab Sample ID: 160-36699-24

Date Collected: 12/10/19 13:20
 Date Received: 12/13/19 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456622	01/11/20 11:37	KLS	TAL SL

Client Sample ID: STSB03_83.5-88.5

Lab Sample ID: 160-36699-24

Date Collected: 12/10/19 13:20
 Date Received: 12/13/19 09:10

Matrix: Solid

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 18:30	FLC	TAL SL

Client Sample ID: STSB21_0-0.5

Lab Sample ID: 160-36699-25

Date Collected: 12/11/19 11:06
 Date Received: 12/13/19 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456625	01/11/20 12:24	KLS	TAL SL

Client Sample ID: STSB21_0-0.5

Lab Sample ID: 160-36699-25

Date Collected: 12/11/19 11:06
 Date Received: 12/13/19 09:10

Matrix: Solid

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 18:37	FLC	TAL SL

Client Sample ID: STSB21_0.5-3

Lab Sample ID: 160-36699-26

Date Collected: 12/11/19 11:09
 Date Received: 12/13/19 09:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB21_0.5-3

Lab Sample ID: 160-36699-26

Matrix: Solid

Date Collected: 12/11/19 11:09

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456622	01/11/20 12:25	KLS	TAL SL

Client Sample ID: STSB21_0.5-3

Lab Sample ID: 160-36699-26

Matrix: Solid

Date Collected: 12/11/19 11:09

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 18:44	FLC	TAL SL

Client Sample ID: STSB21_3-6

Lab Sample ID: 160-36699-27

Matrix: Solid

Date Collected: 12/11/19 11:20

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456554	01/11/20 12:26	KLS	TAL SL

Client Sample ID: STSB21_3-6

Lab Sample ID: 160-36699-27

Matrix: Solid

Date Collected: 12/11/19 11:20

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 19:38	FLC	TAL SL

Client Sample ID: STSB21_6-15

Lab Sample ID: 160-36699-28

Matrix: Solid

Date Collected: 12/11/19 11:24

Date Received: 12/13/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456622	01/11/20 13:04	KLS	TAL SL

Eurofins TestAmerica, St. Louis

Lab Chronicle

Client: Wood E&I Solutions Inc
 Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Client Sample ID: STSB21_6-15

Date Collected: 12/11/19 11:24

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-28

Matrix: Solid

Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 19:44	FLC	TAL SL

Client Sample ID: STSB21-FD_6-15

Date Collected: 12/11/19 11:26

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	454422	12/17/19 11:06	JWM	TAL SL
Total/NA	Leach	Dry and Grind			454434	12/17/19 12:29	EJQ	TAL SL
Total/NA	Prep	Fill_Geo-21			454856	12/20/19 14:42	KLH	TAL SL
Total/NA	Analysis	901.1		1	456554	01/11/20 13:08	KLS	TAL SL

Client Sample ID: STSB21-FD_6-15

Date Collected: 12/11/19 11:26

Date Received: 12/13/19 09:10

Lab Sample ID: 160-36699-29

Matrix: Solid

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			454840	12/20/19 12:38	LAM	TAL SL
Total/NA	Analysis	6020A		2	455928	01/06/20 19:51	FLC	TAL SL

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Wood E&I Solutions Inc

Job ID: 160-36699-1

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Laboratory: Eurofins TestAmerica, St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	04080	06-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
901.1	Fill_Geo-21	Solid	Radium-226
901.1	Fill_Geo-21	Solid	Radium-228
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Nevada State Program MO000542018-1 07-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
6020A	3050B	Solid	Thorium
901.1	Fill_Geo-21	Solid	Radium-226
901.1	Fill_Geo-21	Solid	Radium-228
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Eurofins TestAmerica, St. Louis

Method Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	TAL SL
3050B	Preparation, Metals	SW846	TAL SL
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = Eurofins TestAmerica, St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Wood E&I Solutions Inc

Project/Site: ACMS - Yerington OU-4B_OU-5_SOIL

Job ID: 160-36699-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
160-36699-1	STSB04_0-0.5	Solid	12/09/19 15:00	12/13/19 09:10	
160-36699-2	STSB04_0.5-3	Solid	12/09/19 15:15	12/13/19 09:10	
160-36699-3	STSB04_3-6	Solid	12/09/19 15:30	12/13/19 09:10	
160-36699-4	STSB04_6-15	Solid	12/09/19 15:39	12/13/19 09:10	
160-36699-5	STSB04_15-25	Solid	12/09/19 16:04	12/13/19 09:10	
160-36699-6	STSB04_25-35	Solid	12/10/19 07:53	12/13/19 09:10	
160-36699-7	STSB04-FD_15-25	Solid	12/09/19 16:09	12/13/19 09:10	
160-36699-8	STSB04_35-45	Solid	12/10/19 08:00	12/13/19 09:10	
160-36699-9	STSB04_45-55	Solid	12/10/19 08:22	12/13/19 09:10	
160-36699-10	STSB04_55-64	Solid	12/10/19 08:34	12/13/19 09:10	
160-36699-11	STSB04_69-74	Solid	12/10/19 08:48	12/13/19 09:10	
160-36699-12	STSB04_79-84	Solid	12/10/19 09:24	12/13/19 09:10	
160-36699-13	STSB03_0-0.5	Solid	12/10/19 10:53	12/13/19 09:10	
160-36699-14	STSB03_0.5-3	Solid	12/10/19 11:01	12/13/19 09:10	
160-36699-15	STSB03-FD_0-0.5	Solid	12/10/19 10:55	12/13/19 09:10	
160-36699-16	STSB03_3-6	Solid	12/10/19 11:16	12/13/19 09:10	
160-36699-17	STSB03_6-15	Solid	12/10/19 11:22	12/13/19 09:10	
160-36699-18	STSB03_15-25	Solid	12/10/19 11:30	12/13/19 09:10	
160-36699-19	STSB03_25-35	Solid	12/10/19 11:37	12/13/19 09:10	
160-36699-20	STSB03_35-45	Solid	12/10/19 11:42	12/13/19 09:10	
160-36699-21	STSB03_45-55	Solid	12/10/19 11:58	12/13/19 09:10	
160-36699-22	STSB03_55-65	Solid	12/10/19 12:14	12/13/19 09:10	
160-36699-23	STSB03_73.5-78.5	Solid	12/10/19 12:55	12/13/19 09:10	
160-36699-24	STSB03_83.5-88.5	Solid	12/10/19 13:20	12/13/19 09:10	
160-36699-25	STSB21_0-0.5	Solid	12/11/19 11:06	12/13/19 09:10	
160-36699-26	STSB21_0.5-3	Solid	12/11/19 11:09	12/13/19 09:10	
160-36699-27	STSB21_3-6	Solid	12/11/19 11:20	12/13/19 09:10	
160-36699-28	STSB21_6-15	Solid	12/11/19 11:24	12/13/19 09:10	
160-36699-29	STSB21-FD_6-15	Solid	12/11/19 11:26	12/13/19 09:10	

Eurofins TestAmerica, St. Louis



Laboratory Management Program LAMP Chain of Custody Record

BPI/ARC Site Node Path: NV_YERINGTON

BPI/ARC Facility Name: Anaconda Copper Mine Site

Page 2 of 7
Rush TAT: Yes No X
STD TAT

Lab Name:	TestAmerica, Inc.	BP/ARC Facility Address:	1 Austin Circle	Req Due Date (mm/dd/yy):	Lab Work Order Number:	Consultant/Contractor:	Wood - E&I Solutions, Inc.
Lab Address:	13715 Rider Trail N., Earth City, MO 63045	City, State, ZIP Code:	Yerington, Nevada 89447	Lead Regulatory Agency:	NDEP Abandoned Mine Lands Program	Consultant/Contractor Project No:	SA18170340.005.055B
Lab PM:	Jayna Awalt	California Global ID No.:		Address:	10940 White Rock Rd, Site 190 Rancho Cordova, CA 95670	Consultant/Contractor PM:	Kent Parrish
Lab Phone:	314-298-8566	Enfco Proposal No:	D019Q-0047	Work Release No:	WR331232	Phone:	916-636-3200 Email: Kent.Parrish@woodplc.com
Lab Shipping Acct#:	1955-3772-0 (TAL Acct #)	Accounting Mode:	Provision <u>X</u> OOC-BU <u> </u>	OOC-RM		Email Report/EDD To:	lynda.lombardi@woodplc.com
Lab Bottle Order No:	NA	Stage:	Appraise	Activity:	Field Work/Remedial Investigation	Invoice To:	BP/ARC <u>X</u> Contractor <u> </u>
Other Info:	OU-4b_OU-5_Soil	Matrix	No. Containers / Preservative	Requested Analyses			
BP/ARC EBM:	Chuck Stilwell	Soil / Solid	HNO ₃	Report Type & QC Level			
EBM Phone:	713-998-2443	Water / Liquid	H ₂ SO ₄	Total Number of Containers	MS/MSD or LD	Standard <u>X</u>	Full Data Package <u> </u>
EBM Email:	Chuck.Stilwell@bp.com	Air / Vapour	Upreserved				
Lab No.	Sample Description	Date	Time				
STSBO4_69-74	12/10/19 0848	X	X	2	X X X X		
STSBO4_79-84	12/10/19 0843	X	X	2	X X X X		
STSBO3_0-0.5	12/10/19 1053	X	X	2	X X X X		
STSBO3_0.5-3	12/10/19 1181	X	X	2	X X X X		
STSBO3-FD_0-0.5	12/10/19 1055	X	X	2	X X X X		
STSBO3_9-6	12/10/19 1116	X	X	2	X X X X		
STSBO3_6-15	12/10/19 1122	X	X	2	X X X X		
STSBO3_15-25	12/10/19 1130	X	X	2	X X X X		
STSBO3_25-35	12/10/19 1137	X	X	2	X X X X		
STSBO3_35-45	12/10/19 1142	X	X	2	X X X X		
Sampler's Name:	Boyce Johnson	Relinquished By / Affiliation				Date	Time
Sampler's Company:	Wood					12/12/19	
Shipment Method:	Fed Ex	Ship Date:	12/12/19				
Shipment Tracking No:	72722434812 L5,76						
Special Instructions:							
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No	Temp Blank: Yes / No	Cooler Temp on Receipt: °F/C	Trip Blank: Yes / No	MS/MSD Sample Submitted: Yes / No			

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Laboratory Management Program LaMP Chain of Custody Record

BP/ARC Site Node Path: NV_YERINGTON

BP/ARC Facility Name: Anaconda Copper Mine Site

Page 3 of 3
 Req Due Date (mm/dd/yy): _____ STD TAT _____ Rush TAT: Yes _____ No _____
 Lab Work Order Number: _____

Lab Name:	BP/ARC Facility Address:	City, State, ZIP Code:	Lead Regulatory Agency:	California Global ID No.:	Enfoss Proposal No:	Work Release No:	Provision	OOC-BU	OOC-RM	Stage:	Activity, Field Work/Remedial Investigation	Invoice To:	BP/ARC	X	Report Type & QC Level	
															Standard	X
Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor	H ₂ SO ₄	HNO ₃	Total Number of Containers	Unpreserved	MS/MSD or LD	Standard	X	Full Data Package		
STSBD03_45-55		12/10/19	1158	X			2	2		X	X					
STSBD03_55-65		12/10/19	1214	X			2	2		X	X					
STSBD03_73.5-78.5		12/10/19	1255	X			2	2		X	X					
STSBD03_83.5-88.5		12/10/19	1320	X			2	2		X	X					
STSBD21_0-0.5		12/11/19	1106	X			2	2		X	X					
STSBD21_0.5-3		12/11/19	1109	X			2	2		X	X					
STSBD21_3-6		12/11/19	1120	X			2	2		X	X					
STSBD21_6-15		12/11/19	1124	X			2	2		X	X					
STSBD21_FD_G-15		12/11/19	1126	X			2	2		X	X					
Bryce Johnson																
Sampler's Company:	Bryce Johnson															
Shipment Method:	F&E	Ship Date:	12/12/19													
Shipment Tracking No:	7772745122 20762015															
Special Instructions:																
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No		Cooler Blank: Yes / No		Temp Blank: Yes / No		Temp On Receipt:		°F/C		Trip Blank: Yes / No		MS/MSD Sample Submitted: Yes / No				

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Atlantic Richfield Company

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Laboratory Management Program LAMP Chain of Custody Record

BP/ARC Site Node Path: NV_YERINGTON

BP/ARC Facility Name: Anaconda Copper Mine Site

Page 1 of 3
 Lab Name: TestAmerica, Inc. Req Due Date (mm/dd/yy): _____ STD TAT _____ Rush TAT: Yes _____ No _____
 Lab Address: 13715 Rider Trail N., Earth City, MO 63045 Consultant/Contractor: Wood - E&I Solutions, Inc.
 City, State, ZIP Code: Yerington, Nevada 89447 Consultant/Contractor Project No.: SA18170340.005.055B
 Lead Regulatory Agency: NDEP Abandoned Mine Lands Program Address: 10940 White Rock Rd, Ste 190
 Lab Phone: 314-298-8566 Consultant/Contractor P/M: Kent Parrish
 California Global ID No.: _____
 Enfos Proposal No: D019Q-0047 Work Release No: WR331232 Phone: 916-636-3200 Email: Kent.Parrish@woodplc.com
 Accounting Mode: Provision OOC-BU OOC-RM _____ Email Report/EDD To: lynda.lombardi@woodplc.com
 Stage: Appraise Activity: Field Work/Remedial Investigation Invoice To: BP/ARC Contractor _____
 Lab Shipping Acct: 1955-3772-0 (TAL Acct #)

Lab Order No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor	HNO ₃	H ₂ SO ₄	Total Number of Containers	Comments	Requested Analyses			Report Type & QC Level		
											MS/MSD or LD	Standard <input checked="" type="checkbox"/>	Full Data Package <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>	Full Data Package <input type="checkbox"/>	Standard <input checked="" type="checkbox"/>
STSBo4_0-0.5	12/9/19 1500	X		X	2				X	X						
STSBo4_0.5-3	12/9/19 1515	X			4	4			X	X						X
STSBo4_3-6	12/9/19 1530	X			2	2			X	X						
STSBo4_6-15	12/9/19 1539	X			2	2			X	X						
STSBo4_15-25	12/9/19 1604	X			2	2			X	X						
STSBo4_25-35	12/10/19 0753	X			2	2			X	X						
STSBo4-FD_15-25	12/11/19 1609	X			2	2			X	X						
STSBo4_35-45	12/10/19 0800	X			2	2			X	X						
STSBo4_45-55	12/10/19 0816	X			2	2			X	X						
STSBo4_55-64	12/10/19 0834	X			2	2			X	X						
Sampler's Name: Bryce Johnson																
Sampler's Company: Wood																
Ship Method: Fed Ex	Ship Date: 12/12/19															
Ship Tracking No: 77772211748112/20161025/24712347																
Special Instructions:																
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No																
Temp Blank: Yes / No																
Cooler Temp on Receipt: °F/C																
Trip Blank: Yes / No																
MS/MSD Sample Submitted: Yes / No																

(Rev. 1)

Revised COC v2/30/19

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Laboratory Management Program LaMP Chain of Custody Record

Login Sample Receipt Checklist

Client: Wood E&I Solutions Inc

Job Number: 160-36699-1

SDG Number:

Login Number: 36699

List Source: Eurofins TestAmerica, St. Louis

List Number: 1

Creator: McKinney, Gerrod E

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True		1
The cooler's custody seal, if present, is intact.	True		2
Sample custody seals, if present, are intact.	N/A		3
The cooler or samples do not appear to have been compromised or tampered with.	True		4
Samples were received on ice.	True		5
Cooler Temperature is acceptable.	True		6
Cooler Temperature is recorded.	True		7
COC is present.	True		8
COC is filled out in ink and legible.	True		9
COC is filled out with all pertinent information.	True		10
Is the Field Sampler's name present on COC?	True		11
There are no discrepancies between the containers received and the COC.	True		12
Samples are received within Holding Time (excluding tests with immediate HTs)	True		13
Sample containers have legible labels.	True		14
Containers are not broken or leaking.	True		15
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A		
Multiphasic samples are not present.	N/A		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O ICOC ID	ICOC Date	
160-36699	1	STSB04_0-0.5	Solid	160-1851257	160-36699-A-1	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	1	STSB04_0-0.5	Solid	160-1851257	160-36699-A-1	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	1	STSB04_0-0.5	Solid	160-1851257	160-36699-A-1	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	1	STSB04_0-0.5	Solid	160-1851257	160-36699-A-1	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	1	STSB04_0-0.5	Solid	160-1851257	160-36699-A-1	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	1	STSB04_0-0.5	Solid	160-1851257	160-36699-A-1	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	1	STSB04_0-0.5	Solid	160-1851258	160-36699-B-1	Plastic Bag - 1000g	Rad Soil Storage 20	Harris, Kayla L	I	160-188868	12/29/19 11:26
160-36699	1	STSB04_0-0.5	Solid	160-1851258	160-36699-B-1	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	1	STSB04_0-0.5	Solid	160-1851258	160-36699-B-1	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	2	STSB04_0.5-3	Solid	160-1851259	160-36699-A-2	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	2	STSB04_0.5-3	Solid	160-1851259	160-36699-A-2	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	2	STSB04_0.5-3	Solid	160-1851259	160-36699-A-2	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	2	STSB04_0.5-3	Solid	160-1851259	160-36699-A-2	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	2	STSB04_0.5-3	Solid	160-1851259	160-36699-A-2	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	2	STSB04_0.5-3	Solid	160-1851259	160-36699-A-2	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	2	STSB04_0.5-3	Solid	160-1851315	160-36699-A-2	Plastic Bag - 1000g	Rad Soil Storage 20	Harris, Kayla L	I	160-188868	12/29/19 11:26
160-36699	2	STSB04_0.5-3	Solid	160-1851315	160-36699-A-2	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	2	STSB04_0.5-3	Solid	160-1851315	160-36699-A-2	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	2	STSB04_0.5-3	Solid	160-1851316	160-36699-A-2	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	2	STSB04_0.5-3	Solid	160-1851316	160-36699-A-2	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	2	STSB04_0.5-3	Solid	160-1851317	160-36699-A-2	No Container	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	2	STSB04_0.5-3	Solid	160-1851317	160-36699-A-2	No Container	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	2	STSB04_0.5-3	Solid	160-1851317	160-36699-A-2	No Container	1-51	Harris, Kayla L	I	160-188868	12/29/19 11:26
160-36699	2	STSB04_0.5-3	Solid	160-1851260	160-36699-B-2	Plastic Bag - 1000g	Rad Soil Storage 20	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	2	STSB04_0.5-3	Solid	160-1851260	160-36699-B-2	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	2	STSB04_0.5-3	Solid	160-1851260	160-36699-B-2	Plastic Bag - 1000g	Rad Cart	Harris, Kayla L	I	160-188868	12/29/19 11:26
160-36699	3	STSB04_3-6	Solid	160-1851261	160-36699-A-3	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	3	STSB04_3-6	Solid	160-1851261	160-36699-A-3	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	3	STSB04_3-6	Solid	160-1851261	160-36699-A-3	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	3	STSB04_3-6	Solid	160-1851261	160-36699-A-3	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	3	STSB04_3-6	Solid	160-1851261	160-36699-A-3	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	3	STSB04_3-6	Solid	160-1851261	160-36699-A-3	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	3	STSB04_3-6	Solid	160-1851262	160-36699-B-3	Plastic Bag - 1000g	Rad Soil Storage 20	Harris, Kayla L	I	160-188868	12/29/19 11:26
160-36699	3	STSB04_3-6	Solid	160-1851262	160-36699-B-3	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	3	STSB04_3-6	Solid	160-1851262	160-36699-B-3	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	4	STSB04_6-15	Solid	160-1851263	160-36699-A-4	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	4	STSB04_6-15	Solid	160-1851263	160-36699-A-4	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	4	STSB04_6-15	Solid	160-1851263	160-36699-A-4	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	4	STSB04_6-15	Solid	160-1851263	160-36699-A-4	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	4	STSB04_6-15	Solid	160-1851263	160-36699-A-4	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	4	STSB04_6-15	Solid	160-1851263	160-36699-A-4	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O	ICOC ID	ICOC Date
160-36699	4	STSB04_6-15	Solid	160-1851264	160-36699-B-4	Plastic Bag - 1000g	Rad Soil Storage 20	Harris, Kayla L	I	160-188868	12/29/19 11:26
160-36699	4	STSB04_6-15	Solid	160-1851264	160-36699-B-4	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	4	STSB04_6-15	Solid	160-1851264	160-36699-B-4	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	5	STSB04_15-25	Solid	160-1851265	160-36699-A-5	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	5	STSB04_15-25	Solid	160-1851265	160-36699-A-5	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	5	STSB04_15-25	Solid	160-1851265	160-36699-A-5	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	5	STSB04_15-25	Solid	160-1851265	160-36699-A-5	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	5	STSB04_15-25	Solid	160-1851265	160-36699-A-5	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	5	STSB04_15-25	Solid	160-1851265	160-36699-A-5	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	5	STSB04_15-25	Solid	160-1851266	160-36699-B-5	Plastic Bag - 1000g	Rad Soil Storage 20	Harris, Kayla L	I	160-188868	12/29/19 11:26
160-36699	5	STSB04_15-25	Solid	160-1851266	160-36699-B-5	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	5	STSB04_15-25	Solid	160-1851266	160-36699-B-5	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	6	STSB04_25-35	Solid	160-1851267	160-36699-A-6	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	6	STSB04_25-35	Solid	160-1851267	160-36699-A-6	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	6	STSB04_25-35	Solid	160-1851267	160-36699-A-6	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	6	STSB04_25-35	Solid	160-1851267	160-36699-A-6	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	6	STSB04_25-35	Solid	160-1851267	160-36699-A-6	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	6	STSB04_25-35	Solid	160-1851267	160-36699-A-6	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	6	STSB04_25-35	Solid	160-1851268	160-36699-B-6	Plastic Bag - 1000g	Rad Soil Storage 20	Harris, Kayla L	I	160-188868	12/29/19 11:26
160-36699	6	STSB04_25-35	Solid	160-1851268	160-36699-B-6	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	6	STSB04_25-35	Solid	160-1851268	160-36699-B-6	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	7	STSB04-FD_15-25	Solid	160-1851269	160-36699-A-7	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	7	STSB04-FD_15-25	Solid	160-1851269	160-36699-A-7	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	7	STSB04-FD_15-25	Solid	160-1851269	160-36699-A-7	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	7	STSB04-FD_15-25	Solid	160-1851269	160-36699-A-7	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	7	STSB04-FD_15-25	Solid	160-1851269	160-36699-A-7	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	7	STSB04-FD_15-25	Solid	160-1851269	160-36699-A-7	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	7	STSB04-FD_15-25	Solid	160-1851270	160-36699-B-7	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	7	STSB04-FD_15-25	Solid	160-1851270	160-36699-B-7	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	7	STSB04-FD_15-25	Solid	160-1851270	160-36699-B-7	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	8	STSB04_35-45	Solid	160-1851271	160-36699-A-8	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	8	STSB04_35-45	Solid	160-1851271	160-36699-A-8	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	8	STSB04_35-45	Solid	160-1851271	160-36699-A-8	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	8	STSB04_35-45	Solid	160-1851271	160-36699-A-8	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	8	STSB04_35-45	Solid	160-1851271	160-36699-A-8	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	8	STSB04_35-45	Solid	160-1851271	160-36699-A-8	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	8	STSB04_35-45	Solid	160-1851272	160-36699-B-8	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	8	STSB04_35-45	Solid	160-1851272	160-36699-B-8	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	8	STSB04_35-45	Solid	160-1851272	160-36699-B-8	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	9	STSB04_45-55	Solid	160-1851273	160-36699-A-9	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O	ICOC ID	ICOC Date
160-36699	9	STSB04_45-55	Solid	160-1851273	160-36699-A-9	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	9	STSB04_45-55	Solid	160-1851273	160-36699-A-9	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	9	STSB04_45-55	Solid	160-1851273	160-36699-A-9	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	9	STSB04_45-55	Solid	160-1851273	160-36699-A-9	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	9	STSB04_45-55	Solid	160-1851273	160-36699-A-9	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	9	STSB04_45-55	Solid	160-1851274	160-36699-B-9	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	9	STSB04_45-55	Solid	160-1851274	160-36699-B-9	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	9	STSB04_45-55	Solid	160-1851274	160-36699-B-9	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	10	STSB04_55-64	Solid	160-1851275	160-36699-A-10	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	10	STSB04_55-64	Solid	160-1851275	160-36699-A-10	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	10	STSB04_55-64	Solid	160-1851275	160-36699-A-10	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	10	STSB04_55-64	Solid	160-1851275	160-36699-A-10	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	10	STSB04_55-64	Solid	160-1851275	160-36699-A-10	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	10	STSB04_55-64	Solid	160-1851275	160-36699-A-10	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	10	STSB04_55-64	Solid	160-1851276	160-36699-B-10	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	10	STSB04_55-64	Solid	160-1851276	160-36699-B-10	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	10	STSB04_55-64	Solid	160-1851276	160-36699-B-10	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	11	STSB04_69-74	Solid	160-1851277	160-36699-A-11	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	11	STSB04_69-74	Solid	160-1851277	160-36699-A-11	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	11	STSB04_69-74	Solid	160-1851277	160-36699-A-11	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	11	STSB04_69-74	Solid	160-1851277	160-36699-A-11	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	11	STSB04_69-74	Solid	160-1851277	160-36699-A-11	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	11	STSB04_69-74	Solid	160-1851277	160-36699-A-11	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	11	STSB04_69-74	Solid	160-1851278	160-36699-B-11	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	11	STSB04_69-74	Solid	160-1851278	160-36699-B-11	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	11	STSB04_69-74	Solid	160-1851278	160-36699-B-11	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	12	STSB04_79-84	Solid	160-1851279	160-36699-A-12	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	12	STSB04_79-84	Solid	160-1851279	160-36699-A-12	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	12	STSB04_79-84	Solid	160-1851279	160-36699-A-12	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	12	STSB04_79-84	Solid	160-1851279	160-36699-A-12	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	12	STSB04_79-84	Solid	160-1851279	160-36699-A-12	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	12	STSB04_79-84	Solid	160-1851279	160-36699-A-12	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	12	STSB04_79-84	Solid	160-1851280	160-36699-B-12	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	12	STSB04_79-84	Solid	160-1851280	160-36699-B-12	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	12	STSB04_79-84	Solid	160-1851280	160-36699-B-12	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	13	STSB03_0-0.5	Solid	160-1851281	160-36699-A-13	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	13	STSB03_0-0.5	Solid	160-1851281	160-36699-A-13	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	13	STSB03_0-0.5	Solid	160-1851281	160-36699-A-13	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	13	STSB03_0-0.5	Solid	160-1851281	160-36699-A-13	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	13	STSB03_0-0.5	Solid	160-1851281	160-36699-A-13	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O	ICOC ID	ICOC Date
160-36699	13	STSB03_0-0.5	Solid	160-1851281	160-36699-A-13	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	13	STSB03_0-0.5	Solid	160-1851282	160-36699-B-13	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	13	STSB03_0-0.5	Solid	160-1851282	160-36699-B-13	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	13	STSB03_0-0.5	Solid	160-1851282	160-36699-B-13	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	14	STSB03_0.5-3	Solid	160-1851283	160-36699-A-14	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	14	STSB03_0.5-3	Solid	160-1851283	160-36699-A-14	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	14	STSB03_0.5-3	Solid	160-1851283	160-36699-A-14	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	14	STSB03_0.5-3	Solid	160-1851283	160-36699-A-14	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	14	STSB03_0.5-3	Solid	160-1851283	160-36699-A-14	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	14	STSB03_0.5-3	Solid	160-1851283	160-36699-A-14	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	14	STSB03_0.5-3	Solid	160-1851284	160-36699-B-14	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	14	STSB03_0.5-3	Solid	160-1851284	160-36699-B-14	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	14	STSB03_0.5-3	Solid	160-1851284	160-36699-B-14	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851285	160-36699-A-15	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851285	160-36699-A-15	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851285	160-36699-A-15	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851285	160-36699-A-15	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851285	160-36699-A-15	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851285	160-36699-A-15	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851286	160-36699-B-15	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851286	160-36699-B-15	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	15	STSB03-FD_0-0.5	Solid	160-1851286	160-36699-B-15	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	16	STSB03_3-6	Solid	160-1851287	160-36699-A-16	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	16	STSB03_3-6	Solid	160-1851287	160-36699-A-16	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	16	STSB03_3-6	Solid	160-1851287	160-36699-A-16	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	16	STSB03_3-6	Solid	160-1851287	160-36699-A-16	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	16	STSB03_3-6	Solid	160-1851287	160-36699-A-16	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	16	STSB03_3-6	Solid	160-1851287	160-36699-A-16	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	16	STSB03_3-6	Solid	160-1851288	160-36699-B-16	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	16	STSB03_3-6	Solid	160-1851288	160-36699-B-16	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	16	STSB03_3-6	Solid	160-1851288	160-36699-B-16	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	17	STSB03_6-15	Solid	160-1851289	160-36699-A-17	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	17	STSB03_6-15	Solid	160-1851289	160-36699-A-17	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	17	STSB03_6-15	Solid	160-1851289	160-36699-A-17	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	17	STSB03_6-15	Solid	160-1851289	160-36699-A-17	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	17	STSB03_6-15	Solid	160-1851289	160-36699-A-17	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	17	STSB03_6-15	Solid	160-1851289	160-36699-A-17	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	17	STSB03_6-15	Solid	160-1851290	160-36699-B-17	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	17	STSB03_6-15	Solid	160-1851290	160-36699-B-17	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	17	STSB03_6-15	Solid	160-1851290	160-36699-B-17	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O ICOC ID	ICOC Date	
160-36699	18	STSB03_15-25	Solid	160-1851291	160-36699-A-18	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	18	STSB03_15-25	Solid	160-1851291	160-36699-A-18	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	18	STSB03_15-25	Solid	160-1851291	160-36699-A-18	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	18	STSB03_15-25	Solid	160-1851291	160-36699-A-18	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	18	STSB03_15-25	Solid	160-1851291	160-36699-A-18	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	18	STSB03_15-25	Solid	160-1851291	160-36699-A-18	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	18	STSB03_15-25	Solid	160-1851292	160-36699-B-18	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	18	STSB03_15-25	Solid	160-1851292	160-36699-B-18	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	18	STSB03_15-25	Solid	160-1851292	160-36699-B-18	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	19	STSB03_25-35	Solid	160-1851293	160-36699-A-19	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	19	STSB03_25-35	Solid	160-1851293	160-36699-A-19	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	19	STSB03_25-35	Solid	160-1851293	160-36699-A-19	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	19	STSB03_25-35	Solid	160-1851293	160-36699-A-19	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	19	STSB03_25-35	Solid	160-1851293	160-36699-A-19	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	19	STSB03_25-35	Solid	160-1851293	160-36699-A-19	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	19	STSB03_25-35	Solid	160-1851294	160-36699-B-19	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	19	STSB03_25-35	Solid	160-1851294	160-36699-B-19	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	19	STSB03_25-35	Solid	160-1851294	160-36699-B-19	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	20	STSB03_35-45	Solid	160-1851295	160-36699-A-20	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	20	STSB03_35-45	Solid	160-1851295	160-36699-A-20	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	20	STSB03_35-45	Solid	160-1851295	160-36699-A-20	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	20	STSB03_35-45	Solid	160-1851295	160-36699-A-20	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	20	STSB03_35-45	Solid	160-1851295	160-36699-A-20	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	20	STSB03_35-45	Solid	160-1851295	160-36699-A-20	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	20	STSB03_35-45	Solid	160-1851296	160-36699-B-20	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	20	STSB03_35-45	Solid	160-1851296	160-36699-B-20	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	20	STSB03_35-45	Solid	160-1851296	160-36699-B-20	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	21	STSB03_45-55	Solid	160-1851297	160-36699-A-21	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	21	STSB03_45-55	Solid	160-1851297	160-36699-A-21	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	21	STSB03_45-55	Solid	160-1851297	160-36699-A-21	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	21	STSB03_45-55	Solid	160-1851297	160-36699-A-21	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	21	STSB03_45-55	Solid	160-1851297	160-36699-A-21	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	21	STSB03_45-55	Solid	160-1851297	160-36699-A-21	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	21	STSB03_45-55	Solid	160-1851298	160-36699-B-21	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	21	STSB03_45-55	Solid	160-1851298	160-36699-B-21	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	21	STSB03_45-55	Solid	160-1851298	160-36699-B-21	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	22	STSB03_55-65	Solid	160-1851299	160-36699-A-22	Soil jar 4oz	1-51	Mazariegos, Leonel I	160-188684	12/24/19 12:00	
160-36699	22	STSB03_55-65	Solid	160-1851299	160-36699-A-22	Soil jar 4oz	METALS	Mazariegos, Leonel I	160-188451	12/20/19 12:32	
160-36699	22	STSB03_55-65	Solid	160-1851299	160-36699-A-22	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	22	STSB03_55-65	Solid	160-1851299	160-36699-A-22	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21

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Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O	ICOC ID	ICOC Date
160-36699	22	STSB03_55-65	Solid	160-1851299	160-36699-A-22	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	22	STSB03_55-65	Solid	160-1851299	160-36699-A-22	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	22	STSB03_55-65	Solid	160-1851300	160-36699-B-22	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	22	STSB03_55-65	Solid	160-1851300	160-36699-B-22	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	22	STSB03_55-65	Solid	160-1851300	160-36699-B-22	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	23	STSB03_73.5-78.5	Solid	160-1851301	160-36699-A-23	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	23	STSB03_73.5-78.5	Solid	160-1851301	160-36699-A-23	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	23	STSB03_73.5-78.5	Solid	160-1851301	160-36699-A-23	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	23	STSB03_73.5-78.5	Solid	160-1851301	160-36699-A-23	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	23	STSB03_73.5-78.5	Solid	160-1851301	160-36699-A-23	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	23	STSB03_73.5-78.5	Solid	160-1851301	160-36699-A-23	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	23	STSB03_73.5-78.5	Solid	160-1851302	160-36699-B-23	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	23	STSB03_73.5-78.5	Solid	160-1851302	160-36699-B-23	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	23	STSB03_73.5-78.5	Solid	160-1851302	160-36699-B-23	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	24	STSB03_83.5-88.5	Solid	160-1851303	160-36699-A-24	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	24	STSB03_83.5-88.5	Solid	160-1851303	160-36699-A-24	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	24	STSB03_83.5-88.5	Solid	160-1851303	160-36699-A-24	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	24	STSB03_83.5-88.5	Solid	160-1851303	160-36699-A-24	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	24	STSB03_83.5-88.5	Solid	160-1851303	160-36699-A-24	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	24	STSB03_83.5-88.5	Solid	160-1851303	160-36699-A-24	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	24	STSB03_83.5-88.5	Solid	160-1851304	160-36699-B-24	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	24	STSB03_83.5-88.5	Solid	160-1851304	160-36699-B-24	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	24	STSB03_83.5-88.5	Solid	160-1851304	160-36699-B-24	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	25	STSB21_0-0.5	Solid	160-1851305	160-36699-A-25	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	25	STSB21_0-0.5	Solid	160-1851305	160-36699-A-25	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	25	STSB21_0-0.5	Solid	160-1851305	160-36699-A-25	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	25	STSB21_0-0.5	Solid	160-1851305	160-36699-A-25	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	25	STSB21_0-0.5	Solid	160-1851305	160-36699-A-25	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	25	STSB21_0-0.5	Solid	160-1851305	160-36699-A-25	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	25	STSB21_0-0.5	Solid	160-1851306	160-36699-B-25	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	25	STSB21_0-0.5	Solid	160-1851306	160-36699-B-25	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28
160-36699	25	STSB21_0-0.5	Solid	160-1851306	160-36699-B-25	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160	12/17/19 14:03
160-36699	26	STSB21_0.5-3	Solid	160-1851307	160-36699-A-26	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684	12/24/19 12:00
160-36699	26	STSB21_0.5-3	Solid	160-1851307	160-36699-A-26	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451	12/20/19 12:32
160-36699	26	STSB21_0.5-3	Solid	160-1851307	160-36699-A-26	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406	12/19/19 20:16
160-36699	26	STSB21_0.5-3	Solid	160-1851307	160-36699-A-26	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396	12/19/19 17:21
160-36699	26	STSB21_0.5-3	Solid	160-1851307	160-36699-A-26	Soil jar 4oz	1-51	Mcnutt, Joe W	I	160-188133	12/17/19 11:53
160-36699	26	STSB21_0.5-3	Solid	160-1851307	160-36699-A-26	Soil jar 4oz	Pre-Prep	Mcnutt, Joe W	I	160-188123	12/17/19 10:40
160-36699	26	STSB21_0.5-3	Solid	160-1851318	160-36699-A-26	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869	12/29/19 11:32
160-36699	26	STSB21_0.5-3	Solid	160-1851318	160-36699-A-26	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138	12/17/19 12:28

Internal Chain of Custody Tracking

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O ICOC ID	ICOC Date
160-36699	26	STSB21_0.5-3	Solid	160-1851318	160-36699-A-26	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160 12/17/19 14:03
160-36699	26	STSB21_0.5-3	Solid	160-1851319	160-36699-A-26	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684 12/24/19 12:00
160-36699	26	STSB21_0.5-3	Solid	160-1851319	160-36699-A-26	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451 12/20/19 12:32
160-36699	26	STSB21_0.5-3	Solid	160-1851320	160-36699-A-26	No Container	1-51	Mazariegos, Leonel I	I	160-188684 12/24/19 12:00
160-36699	26	STSB21_0.5-3	Solid	160-1851320	160-36699-A-26	No Container	METALS	Mazariegos, Leonel I	I	160-188451 12/20/19 12:32
160-36699	26	STSB21_0.5-3	Solid	160-1851308	160-36699-B-26	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869 12/29/19 11:32
160-36699	26	STSB21_0.5-3	Solid	160-1851308	160-36699-B-26	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138 12/17/19 12:28
160-36699	26	STSB21_0.5-3	Solid	160-1851308	160-36699-B-26	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160 12/17/19 14:03
160-36699	27	STSB21_3-6	Solid	160-1851309	160-36699-A-27	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684 12/24/19 12:00
160-36699	27	STSB21_3-6	Solid	160-1851309	160-36699-A-27	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451 12/20/19 12:32
160-36699	27	STSB21_3-6	Solid	160-1851309	160-36699-A-27	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406 12/19/19 20:16
160-36699	27	STSB21_3-6	Solid	160-1851309	160-36699-A-27	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396 12/19/19 17:21
160-36699	27	STSB21_3-6	Solid	160-1851309	160-36699-A-27	Soil jar 4oz	1-51	McNutt, Joe W	I	160-188133 12/17/19 11:53
160-36699	27	STSB21_3-6	Solid	160-1851309	160-36699-A-27	Soil jar 4oz	Pre-Prep	McNutt, Joe W	I	160-188123 12/17/19 10:40
160-36699	27	STSB21_3-6	Solid	160-1851310	160-36699-B-27	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869 12/29/19 11:32
160-36699	27	STSB21_3-6	Solid	160-1851310	160-36699-B-27	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138 12/17/19 12:28
160-36699	27	STSB21_3-6	Solid	160-1851310	160-36699-B-27	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160 12/17/19 14:03
160-36699	28	STSB21_6-15	Solid	160-1851311	160-36699-A-28	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684 12/24/19 12:00
160-36699	28	STSB21_6-15	Solid	160-1851311	160-36699-A-28	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451 12/20/19 12:32
160-36699	28	STSB21_6-15	Solid	160-1851311	160-36699-A-28	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406 12/19/19 20:16
160-36699	28	STSB21_6-15	Solid	160-1851311	160-36699-A-28	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396 12/19/19 17:21
160-36699	28	STSB21_6-15	Solid	160-1851311	160-36699-A-28	Soil jar 4oz	1-51	McNutt, Joe W	I	160-188133 12/17/19 11:53
160-36699	28	STSB21_6-15	Solid	160-1851311	160-36699-A-28	Soil jar 4oz	Pre-Prep	McNutt, Joe W	I	160-188123 12/17/19 10:40
160-36699	28	STSB21_6-15	Solid	160-1851312	160-36699-B-28	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869 12/29/19 11:32
160-36699	28	STSB21_6-15	Solid	160-1851312	160-36699-B-28	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138 12/17/19 12:28
160-36699	28	STSB21_6-15	Solid	160-1851312	160-36699-B-28	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160 12/17/19 14:03
160-36699	29	STSB21-FD_6-15	Solid	160-1851313	160-36699-A-29	Soil jar 4oz	1-51	Mazariegos, Leonel I	I	160-188684 12/24/19 12:00
160-36699	29	STSB21-FD_6-15	Solid	160-1851313	160-36699-A-29	Soil jar 4oz	METALS	Mazariegos, Leonel I	I	160-188451 12/20/19 12:32
160-36699	29	STSB21-FD_6-15	Solid	160-1851313	160-36699-A-29	Soil jar 4oz	1-51	Harris, Kayla L	I	160-188406 12/19/19 20:16
160-36699	29	STSB21-FD_6-15	Solid	160-1851313	160-36699-A-29	Soil jar 4oz	Pre-Prep	Moore, Octavia R	I	160-188396 12/19/19 17:21
160-36699	29	STSB21-FD_6-15	Solid	160-1851313	160-36699-A-29	Soil jar 4oz	1-51	McNutt, Joe W	I	160-188133 12/17/19 11:53
160-36699	29	STSB21-FD_6-15	Solid	160-1851313	160-36699-A-29	Soil jar 4oz	Pre-Prep	McNutt, Joe W	I	160-188123 12/17/19 10:40
160-36699	29	STSB21-FD_6-15	Solid	160-1851314	160-36699-B-29	Plastic Bag - 1000g	Rad Soil Storage 15	Harris, Kayla L	I	160-188869 12/29/19 11:32
160-36699	29	STSB21-FD_6-15	Solid	160-1851314	160-36699-B-29	Plastic Bag - 1000g	DRY AND GRIND	Quinn, Erin J	I	160-188138 12/17/19 12:28
160-36699	29	STSB21-FD_6-15	Solid	160-1851314	160-36699-B-29	Plastic Bag - 1000g	Rad Cart	Quinn, Erin J	I	160-188160 12/17/19 14:03

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.: _____

Batch Number: 454839 Batch Start Date: 12/20/19 12:36 Batch Analyst: Mazariegos, Leonel A

Batch Method: 3050B Batch End Date: 12/26/19 14:44

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MPREP1-A 00004	MPREP1-B 00004	MPREP2 00022	PR_LCSSRM 00024
MB 160-454839/1		3050B, 6020A		0.5150 g	50 mL				
LCS 160-454839/2		3050B, 6020A		0.5692 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
LCSSRM 160-454839/3		3050B, 6020A		0.5399 g	50 mL				0.5399 g
160-36699-A-1	STSB04_0-0.5	3050B, 6020A	T	0.5519 g	50 mL				
160-36699-A-2	STSB04_0.5-3	3050B, 6020A	T	0.5934 g	50 mL				
160-36699-A-2 DU	STSB04_0.5-3	3050B, 6020A	T	0.5217 g	50 mL				
160-36699-A-2 MS	STSB04_0.5-3	3050B, 6020A	T	0.5251 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36699-A-2 MSD	STSB04_0.5-3	3050B, 6020A	T	0.5240 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36699-A-3	STSB04_3-6	3050B, 6020A	T	0.5359 g	50 mL				
160-36699-A-4	STSB04_6-15	3050B, 6020A	T	0.5515 g	50 mL				
160-36699-A-5	STSB04_15-25	3050B, 6020A	T	0.5487 g	50 mL				
160-36699-A-6	STSB04_25-35	3050B, 6020A	T	0.5373 g	50 mL				
160-36699-A-7	STSB04-FD_15-25	3050B, 6020A	T	0.5383 g	50 mL				
160-36699-A-8	STSB04_35-45	3050B, 6020A	T	0.5278 g	50 mL				
160-36699-A-9	STSB04_45-55	3050B, 6020A	T	0.5556 g	50 mL				
160-36699-A-10	STSB04_55-64	3050B, 6020A	T	0.5507 g	50 mL				
160-36699-A-11	STSB04_69-74	3050B, 6020A	T	0.5344 g	50 mL				
160-36699-A-12	STSB04_79-84	3050B, 6020A	T	0.5537 g	50 mL				
160-36699-A-13	STSB03_0-0.5	3050B, 6020A	T	0.5685 g	50 mL				
160-36699-A-14	STSB03_0.5-3	3050B, 6020A	T	0.5187 g	50 mL				
160-36699-A-15	STSB03-FD_0-0.5	3050B, 6020A	T	0.5529 g	50 mL				
160-36699-A-16	STSB03_3-6	3050B, 6020A	T	0.5277 g	50 mL				
160-36699-A-17	STSB03_6-15	3050B, 6020A	T	0.5218 g	50 mL				
160-36699-A-18	STSB03_15-25	3050B, 6020A	T	0.5261 g	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.: _____

Batch Number: 454839Batch Start Date: 12/20/19 12:36Batch Analyst: Mazariegos, Leonel ABatch Method: 3050BBatch End Date: 12/26/19 14:44

Batch Notes	
Balance ID	27150420
Blank Soil Lot Number	25438819
Temperature - Corrected - End	F7: 92.5 Degrees C
Temperature - Corrected - Start	B3: 90.5 Degrees C
Digestion End Time	12/26/2019 14:03
Digestion Start Time	12/26/2019 11:14
Digestion Unit ID	HOTBLOCK 1
Digestion Tube/Cup ID	344749-4653
Hydrogen Peroxide ID	1852964
Hydrochloric Acid ID	1843669
Nitric Acid ID	1843694, 1847195
Pipette/Syringe/Dispenser ID	MET-12
Analyst ID - Spike Analyst	LAM
Thermometer ID	160322347

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.:

Batch Number: 454840

Batch Start Date: 12/20/19 12:38

Batch Analyst: Mazariegos, Leonel A

Batch Method: 3050B

Batch End Date: 12/26/19 14:44

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MPREP1-A 00004	MPREP1-B 00004	MPREP2 00022	PR_LCSSRM 00024
MB 160-454840/1		3050B, 6020A		0.5783 g	50 mL				
LCS 160-454840/2		3050B, 6020A		0.5685 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
LCSSRM 160-454840/3		3050B, 6020A		0.5873 g	50 mL				0.5873 g
160-36699-A-19	STSB03_25-35	3050B, 6020A	T	0.5655 g	50 mL				
160-36699-A-20	STSB03_35-45	3050B, 6020A	T	0.5541 g	50 mL				
160-36699-A-21	STSB03_45-55	3050B, 6020A	T	0.5266 g	50 mL				
160-36699-A-22	STSB03_55-65	3050B, 6020A	T	0.5815 g	50 mL				
160-36699-A-23	STSB03_73.5-78.5	3050B, 6020A	T	0.5672 g	50 mL				
160-36699-A-24	STSB03_83.5-88.5	3050B, 6020A	T	0.5468 g	50 mL				
160-36699-A-25	STSB21_0-0.5	3050B, 6020A	T	0.5951 g	50 mL				
160-36699-A-26	STSB21_0.5-3	3050B, 6020A	T	0.5895 g	50 mL				
160-36699-A-26 DU	STSB21_0.5-3	3050B, 6020A	T	0.5419 g	50 mL				
160-36699-A-26 MS	STSB21_0.5-3	3050B, 6020A	T	0.5888 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36699-A-26 MSD	STSB21_0.5-3	3050B, 6020A	T	0.5613 g	50 mL	0.25 mL	0.25 mL	0.25 mL	
160-36699-A-27	STSB21_3-6	3050B, 6020A	T	0.5308 g	50 mL				
160-36699-A-28	STSB21_6-15	3050B, 6020A	T	0.5247 g	50 mL				
160-36699-A-29	STSB21-FD_6-15	3050B, 6020A	T	0.5194 g	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.: _____

Batch Number: 454840Batch Start Date: 12/20/19 12:38Batch Analyst: Mazariegos, Leonel ABatch Method: 3050BBatch End Date: 12/26/19 14:44

Batch Notes	
Balance ID	27150420
Blank Soil Lot Number	25438819
Temperature - Corrected - End	F7: 92.5 Degrees C
Temperature - Corrected - Start	B3: 90.5 Degrees C
Digestion End Time	12/26/2019 14:03
Digestion Start Time	12/26/2019 11:14
Digestion Unit ID	HOTBLOCK 1
Digestion Tube/Cup ID	344749-4653
Hydrogen Peroxide ID	1852964
Hydrochloric Acid ID	1843669
Nitric Acid ID	1843694, 1847195
Pipette/Syringe/Dispenser ID	MET-12
Analyst ID - Spike Analyst	LAM
Thermometer ID	160322347

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.:

Batch Number: 454407 Batch Start Date: 12/17/19 10:40 Batch Analyst: Mcnutt, Joe W

Batch Method: Moisture Batch End Date: 12/18/19 06:33

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
160-36699-A-1	STSB04_0-0.5	Moisture	T	1	1.0063 g	12.4449 g	11.3974 g		
160-36699-A-1 DU	STSB04_0-0.5	Moisture	T	2	1.0116 g	12.8089 g	11.7572 g		
160-36699-A-2	STSB04_0.5-3	Moisture	T	3	1.0096 g	9.8321 g	9.3695 g		
160-36699-A-3	STSB04_3-6	Moisture	T	4	1.0039 g	13.1892 g	12.7556 g		
160-36699-A-4	STSB04_6-15	Moisture	T	5	1.0172 g	13.0507 g	12.6258 g		
160-36699-A-5	STSB04_15-25	Moisture	T	6	1.0123 g	12.4938 g	12.0843 g		
160-36699-A-6	STSB04_25-35	Moisture	T	7	0.9966 g	10.3504 g	9.5902 g		
160-36699-A-7	STSB04-FD_15-25	Moisture	T	8	0.9994 g	11.2521 g	10.9047 g		
160-36699-A-8	STSB04_35-45	Moisture	T	9	1.0104 g	10.2144 g	9.7604 g		
160-36699-A-9	STSB04_45-55	Moisture	T	10	0.9943 g	10.1834 g	9.6014 g		
160-36699-A-10	STSB04_55-64	Moisture	T	11	1.0064 g	9.5198 g	8.7950 g		
160-36699-A-11	STSB04_69-74	Moisture	T	12	0.9955 g	12.9083 g	10.6924 g		
160-36699-A-12	STSB04_79-84	Moisture	T	13	1.0009 g	10.8766 g	9.6343 g		
160-36699-A-13	STSB03_0-0.5	Moisture	T	14	0.9977 g	13.0265 g	12.2337 g		
160-36699-A-14	STSB03_0.5-3	Moisture	T	15	1.0072 g	9.8948 g	8.3771 g		
160-36699-A-15	STSB03-FD_0-0.5	Moisture	T	16	1.0120 g	13.9493 g	13.0955 g		

Batch Notes	
Balance ID	0034150065
Batch Comment	TRAY K-9
Date samples were placed in the oven	12/17/2019
Oven Temp In	103 Degrees C
Time samples were place in the oven	11:12
Date samples were removed from oven	12/18/2019
Oven Temp Out	102 Degrees C
Time Samples were removed from oven	06:33
Oven ID	OC
Thermometer ID	A142186

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.: _____

Batch Number: 454407Batch Method: MoistureBatch Start Date: 12/17/19 10:40Batch End Date: 12/18/19 06:33Batch Analyst: Mcnutt, Joe W

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.:

Batch Number: 454422 Batch Start Date: 12/17/19 11:06

Batch Analyst: Mcnutt, Joe W

Batch Method: Moisture Batch End Date: 12/18/19 06:39

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
160-36699-A-16	STSB03_3-6	Moisture	T	1	0.9889 g	9.3156 g	7.2912 g		
160-36699-A-16 DU	STSB03_3-6	Moisture	T	2	1.0115 g	9.6537 g	7.4920 g		
160-36699-A-17	STSB03_6-15	Moisture	T	3	0.9974 g	13.2265 g	10.8555 g		
160-36699-A-18	STSB03_15-25	Moisture	T	4	1.0007 g	11.6090 g	10.9489 g		
160-36699-A-19	STSB03_25-35	Moisture	T	5	1.0085 g	11.9660 g	10.8069 g		
160-36699-A-20	STSB03_35-45	Moisture	T	6	1.0039 g	12.1261 g	10.0234 g		
160-36699-A-21	STSB03_45-55	Moisture	T	7	1.0146 g	13.9321 g	13.1645 g		
160-36699-A-22	STSB03_55-65	Moisture	T	8	1.0019 g	10.2308 g	9.4671 g		
160-36699-A-23	STSB03_73.5-78.5	Moisture	T	9	1.0122 g	12.6610 g	11.1235 g		
160-36699-A-24	STSB03_83.5-88.5	Moisture	T	10	1.0135 g	10.8540 g	9.1122 g		
160-36699-A-25	STSB21_0-0.5	Moisture	T	11	1.0110 g	13.3470 g	12.4283 g		
160-36699-A-26	STSB21_0.5-3	Moisture	T	12	1.0104 g	11.7963 g	11.0584 g		
160-36699-A-27	STSB21_3-6	Moisture	T	13	1.0033 g	10.6804 g	8.3355 g		
160-36699-A-28	STSB21_6-15	Moisture	T	14	1.0068 g	11.1231 g	8.9708 g		
160-36699-A-29	STSB21-FD_6-15	Moisture	T	15	1.0121 g	11.5094 g	10.4178 g		

Batch Notes	
Balance ID	0034150065
Batch Comment	TRAY K-2
Date samples were placed in the oven	12/17/2019
Oven Temp In	103 Degrees C
Time samples were place in the oven	11:30
Date samples were removed from oven	12/18/2019
Oven Temp Out	102 Degrees C
Time Samples were removed from oven	06:39
Oven ID	OC
Thermometer ID	A142186

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.: _____

Batch Number: 454422Batch Start Date: 12/17/19 11:06Batch Analyst: Mcnutt, Joe WBatch Method: Moisture

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

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GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.:

Batch Number: 454803

Batch Start Date: 12/19/19 19:25

Batch Analyst: Harris, Kayla L

Batch Method: Fill_Geo-21

Batch End Date: 12/19/19 20:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	GrossWeight	InitialAmount	IngDecDate1	IngDecDate3	Geometry
MB 160-454803/1		Fill_Geo-21, 901.1				291.18 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
LCS 160-454803/2		Fill_Geo-21, 901.1				341.9 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-1-A	STSB04_0-0.5	Fill_Geo-21, 901.1	T	46.8 g	459.1 g	412.3 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-2-A	STSB04_0.5-3	Fill_Geo-21, 901.1	T	46.6 g	463.4 g	416.8 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-A-2-A	STSB04_0.5-3	Fill_Geo-21, 901.1	T	46.6 g	463.4 g	416.8 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-3-A	STSB04_3-6	Fill_Geo-21, 901.1	T	46.1 g	393.7 g	347.6 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-4-A	STSB04_6-15	Fill_Geo-21, 901.1	T	46.4 g	389.6 g	343.2 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-5-A	STSB04_15-25	Fill_Geo-21, 901.1	T	46.5 g	418.1 g	371.6 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-6-A	STSB04_25-35	Fill_Geo-21, 901.1	T	46.5 g	351.5 g	305 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-7-A	STSB04-FD_15-25	Fill_Geo-21, 901.1	T	46.4 g	377.8 g	331.4 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-8-A	STSB04_35-45	Fill_Geo-21, 901.1	T	46.4 g	364.3 g	317.9 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-9-A	STSB04_45-55	Fill_Geo-21, 901.1	T	46.5 g	359.2 g	312.7 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-10-B	STSB04_55-64	Fill_Geo-21, 901.1	T	46.5 g	338.7 g	292.2 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-11-A	STSB04_69-74	Fill_Geo-21, 901.1	T	46.5 g	291.2 g	244.7 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-12-A	STSB04_79-84	Fill_Geo-21, 901.1	T	46.5 g	358.9 g	312.4 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-13-A	STSB03_0-0.5	Fill_Geo-21, 901.1	T	46.0 g	438.8 g	392.8 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-14-A	STSB03_0.5-3	Fill_Geo-21, 901.1	T	46.1 g	330.5 g	284.4 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN
160-36699-B-15-A	STSB03-FD_0-0.5	Fill_Geo-21, 901.1	T	46.0 g	447.0 g	401 g	12/19/2019 20:05	01/09/2020 20:05	TUNA CAN

Lab Sample ID	Client Sample ID	Method Chain	Basis	Tuna Can LCS 00009					
MB 160-454803/1		Fill_Geo-21, 901.1							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.:

Batch Number: 454803

Batch Start Date: 12/19/19 19:25

Batch Analyst: Harris, Kayla L

Batch Method: Fill_Geo-21

Batch End Date: 12/19/19 20:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	Tuna Can LCS 00009					
LCS 160-454803/2		Fill_Geo-21, 901.1		# g					
160-36699-B-1-A	STSB04_0-0.5	Fill_Geo-21, 901.1	T						
160-36699-B-2-A	STSB04_0.5-3	Fill_Geo-21, 901.1	T						
160-36699-A-2-A DU	STSB04_0.5-3	Fill_Geo-21, 901.1	T						
160-36699-B-3-A	STSB04_3-6	Fill_Geo-21, 901.1	T						
160-36699-B-4-A	STSB04_6-15	Fill_Geo-21, 901.1	T						
160-36699-B-5-A	STSB04_15-25	Fill_Geo-21, 901.1	T						
160-36699-B-6-A	STSB04_25-35	Fill_Geo-21, 901.1	T						
160-36699-B-7-A	STSB04-FD_15-25	Fill_Geo-21, 901.1	T						
160-36699-B-8-A	STSB04_35-45	Fill_Geo-21, 901.1	T						
160-36699-B-9-A	STSB04_45-55	Fill_Geo-21, 901.1	T						
160-36699-B-10-B	STSB04_55-64	Fill_Geo-21, 901.1	T						
160-36699-B-11-A	STSB04_69-74	Fill_Geo-21, 901.1	T						
160-36699-B-12-A	STSB04_79-84	Fill_Geo-21, 901.1	T						
160-36699-B-13-A	STSB03_0-0.5	Fill_Geo-21, 901.1	T						
160-36699-B-14-A	STSB03_0.5-3	Fill_Geo-21, 901.1	T						
160-36699-B-15-A	STSB03-FD_0-0.5	Fill_Geo-21, 901.1	T						

Batch Notes

Balance ID	1121432711
SOP Number	ST-RC-0025

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.: _____

Batch Number: 454803Batch Start Date: 12/19/19 19:25Batch Analyst: Harris, Kayla LBatch Method: Fill_Geo-21Batch End Date: 12/19/19 20:07

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.:

Batch Number: 454856 Batch Start Date: 12/20/19 14:42 Batch Analyst: Harris, Kayla L

Batch Method: Fill_Geo-21 Batch End Date: 12/20/19 15:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	GrossWeight	InitialAmount	IngDecDate1	IngDecDate3	Geometry
MB 160-454856/1		Fill_Geo-21, 901.1				291.18 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
LCS 160-454856/2		Fill_Geo-21, 901.1				341.9 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-16-A	STSB03_3-6	Fill_Geo-21, 901.1	T	45.9 g	282.2 g	236.3 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-17-A	STSB03_6-15	Fill_Geo-21, 901.1	T	46.1 g	282.8 g	236.7 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-18-A	STSB03_15-25	Fill_Geo-21, 901.1	T	46.6 g	358.7 g	312.1 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-19-A	STSB03_25-35	Fill_Geo-21, 901.1	T	46.0 g	331.1 g	285.1 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-20-A	STSB03_35-45	Fill_Geo-21, 901.1	T	45.8 g	308.2 g	262.4 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-21-A	STSB03_45-55	Fill_Geo-21, 901.1	T	46.0 g	351.4 g	305.4 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-22-A	STSB03_55-65	Fill_Geo-21, 901.1	T	46.0 g	360.7 g	314.7 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-23-A	STSB03_73.5-78.5	Fill_Geo-21, 901.1	T	46.4 g	413.6 g	367.2 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-24-A	STSB03_83.5-88.5	Fill_Geo-21, 901.1	T	46.1 g	319.8 g	273.7 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-25-A	STSB21_0-0.5	Fill_Geo-21, 901.1	T	46.1 g	454.9 g	408.8 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-26-A	STSB21_0.5-3	Fill_Geo-21, 901.1	T	46.3 g	470.6 g	424.3 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-A-26-DU	STSB21_0.5-3	Fill_Geo-21, 901.1	T	46.3 g	470.6 g	424.3000 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-27-A	STSB21_3-6	Fill_Geo-21, 901.1	T	46.6 g	314.3 g	267.7 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-28-A	STSB21_6-15	Fill_Geo-21, 901.1	T	45.8 g	309.3 g	263.5 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can
160-36699-B-29-A	STSB21-FD_6-15	Fill_Geo-21, 901.1	T	46.0 g	294.4 g	248.4 g	12/20/2019 15:11	01/10/2020 15:11	Tuna Can

Lab Sample ID	Client Sample ID	Method Chain	Basis	Tuna Can LCS 00009					
MB 160-454856/1		Fill_Geo-21, 901.1							
LCS 160-454856/2		Fill_Geo-21, 901.1		# g					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

901.1

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GAMMA SPECTROSCOPY BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, St. Louis Job No.: 160-36699-1

SDG No.:

Batch Number: 454856 Batch Start Date: 12/20/19 14:42 Batch Analyst: Harris, Kayla L

Batch Method: Fill_Geo-21 Batch End Date: 12/20/19 15:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	Tuna Can LCS 00009					
160-36699-B-16-A	STSB03_3-6	Fill_Geo-21, 901.1	T						
160-36699-B-17-A	STSB03_6-15	Fill_Geo-21, 901.1	T						
160-36699-B-18-A	STSB03_15-25	Fill_Geo-21, 901.1	T						
160-36699-B-19-A	STSB03_25-35	Fill_Geo-21, 901.1	T						
160-36699-B-20-A	STSB03_35-45	Fill_Geo-21, 901.1	T						
160-36699-B-21-A	STSB03_45-55	Fill_Geo-21, 901.1	T						
160-36699-B-22-A	STSB03_55-65	Fill_Geo-21, 901.1	T						
160-36699-B-23-A	STSB03_73.5-78.5	Fill_Geo-21, 901.1	T						
160-36699-B-24-A	STSB03_83.5-88.5	Fill_Geo-21, 901.1	T						
160-36699-B-25-A	STSB21_0-0.5	Fill_Geo-21, 901.1	T						
160-36699-B-26-A	STSB21_0.5-3	Fill_Geo-21, 901.1	T						
160-36699-A-26-A DU	STSB21_0.5-3	Fill_Geo-21, 901.1	T						
160-36699-B-27-A	STSB21_3-6	Fill_Geo-21, 901.1	T						
160-36699-B-28-A	STSB21_6-15	Fill_Geo-21, 901.1	T						
160-36699-B-29-A	STSB21-FD_6-15	Fill_Geo-21, 901.1	T						

Batch Notes

Balance ID	1121432711
SOP Number	ST-RC-0025

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

901.1

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